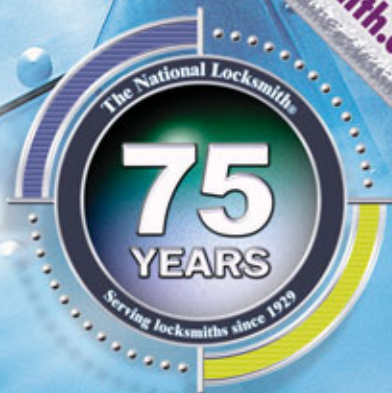


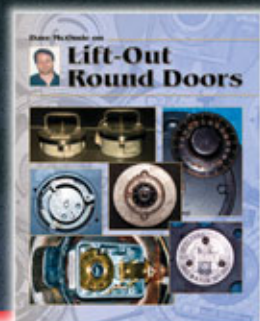
# The National Locksmith<sup>®</sup>

May 2004  
Volume 75  
No. 5  
\$7.00

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[TheNationalLocksmith.com](http://TheNationalLocksmith.com)



*Libby Opens  
and Prospers*  
page 68



**McOmie's HOT New Book!**  
Excerpted on pages 18-22



# HPC SPECIAL! CASH-IN WITH FREE KEY BLANKS!

May 1st to May 31st 2004!



**\$300<sup>00</sup>**

Retail Value of  
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No. 9180MC

**Get 100 FREE**  
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with your purchase of an  
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Semi-Automatic  
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**TET**  
**GROOVY KEYS**

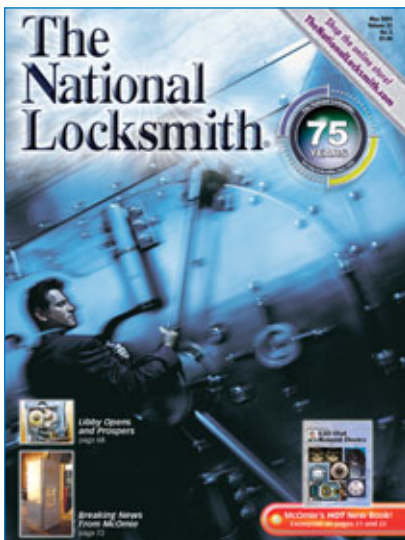
Offer good May 1 through May 31, 2004. Jet Groovy Keys come packed in the key machine box. Retail Value of Free Keys is based on a locksmith survey that averages \$3.00 per cut Groovy key. All versions of HPC Speedex® Duplicators are included in this promotion.



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## On The Cover...



Safe & Vaults are still the pillars of security. Unlock their secrets with Dave McOmie's new book, Dale Libby's how to article, and see what new product offerings manufacturers are featuring.

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### National Publishing Company

The National Locksmith® ISSN #0364-3719 is published monthly by the National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861. Periodicals postage paid at Bartlett, Illinois 60107 and additional mailing offices USPS 040110. Subscriptions \$46.00 per year in the USA; \$58.00 per year in Canada; \$72.00 in all other countries. Single copies \$7.00 each. Postmaster, please send change of address to National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861.  
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# COMMENTARY



## ***It's Fast, It's Free, and We All Win!***

I have a special favor to ask of you.

The staff of *The National Locksmith* is constantly trying to upgrade our magazine. Honestly, our goal is NOT to meet your expectations. Instead, we'd like to "knock your socks off."

One of the problems in trying to do that is we're so far apart. Oh sure, periodically we meet some of you at a convention or locksmith meeting. And sometimes you call to ask questions, chat or even (gasp!) complain about something.

But for the most part, here we sit in our brick building in suburban Chicago, continually thinking about how we might better serve you. The ONE thing we haven't really done before is probably the most important and simplest thing we could do to learn more about how we can please you even more.

Ask.

We just never really had the method to ask you how we might improve *The National Locksmith* to make you happier.

Now we have the method. And we're asking. How can we make this magazine a more valuable tool and a better resource for you?

To simplify matters, we've placed a quick and easy survey online. We're offering THIRTY locksmith prizes for people who choose the option of registering on the survey. You don't have to register. You can answer everything in minutes without providing any contact info.

But we wanted to find a way to thank you for taking three to five minutes answering our questions. The results will not only help us, but they will also help the entire locksmith community we serve.

Now I know this is a long string of stuff to type into your browser. But please take a second and do it carefully. You'll get through the whole process very rapidly, even on a dial up connection. And you'll be helping us, yourself, and the world of locksmithing.

**<http://www.surveymonkey.com/s.asp?u=19976415107>**

What are the prizes? They vary so I won't list them here. Needless to say we have a lot of cool locksmith stuff collecting dust in the warehouse. It ranges from cam lock kits in cool cases, to books, pick sets, pocket knives, and locksmith books.

We'll randomly select at LEAST THIRTY winners who take the survey and send them their prizes. If we get tons of responses, we may even up that to more than FORTY prizes. In any case, spend a few moments and help us improve your industry.

That way, we're all winners!

A handwritten signature in blue ink that reads "Marc Goldberg".



***Have questions? Want free technical help?  
Free Locksmith Forums!***

[www.TheNationalLocksmith.com](http://www.TheNationalLocksmith.com)

**Marc Goldberg**  
Publisher



# Mango's Message

## Unsung Heroes

I have always found it ironic when accolades are awarded to the architect of an idea, and not awarded to the developers of the idea. Bill Gates of Microsoft was obviously a brilliant visionary and gifted software programmer, but I doubt he would be the richest man in the world if he didn't have a huge staff of equally talented and dedicated people behind him to bring his ideas and products to the marketplace. Vision, talent, and ambition alone does not bring ideas to fruition, people working with their hands producing goods do. Unfortunately, those people usually operate behind the scenes, and therefore are usually not recognized for their contributions.

When the United States finally captures, or kills Osama bin Laden, president Bush will be hailed the great chief of staff, yet he is not the one in Afghanistan, getting the job done. Granted, he was the one who authorized and sanctioned the pursuit of Osama, but I don't see his nails getting dirty.

That's not to take anything away from those at the top. This is just an observation that they are there because of those at the bottom, and are often far too self absorbed in their own importance to recognize anyone else's importance, or just too egotistical to think that anyone else is.

I believe every organization/company has its unsung heroes, and we are no exception.

Recently, I suffered a computer meltdown. It was a complete meltdown which required the reformatting of the hard drive, cleaning anything that was once there out, and reinstalling every program, every file, and every application. It turned into a three day project due to typical computer complications, requiring the attention of someone much more talented than me. Enter unsung hero Dave Krofel, who is also one of our Production Assistants. Whenever I experience a computer glitch, Dave is usually my savior, and if Dave is not around, Sheila Campo, another computer hack and our Accounting Manager comes to the rescue. To date, there has never been a computer problem which they couldn't eventually fix, and I'm darn thankful, because I certainly would not have been as successful.

These are callings that go above and beyond their daily responsibilities, for which they receive no extra pay and their services are often taken for granted. Yet, without

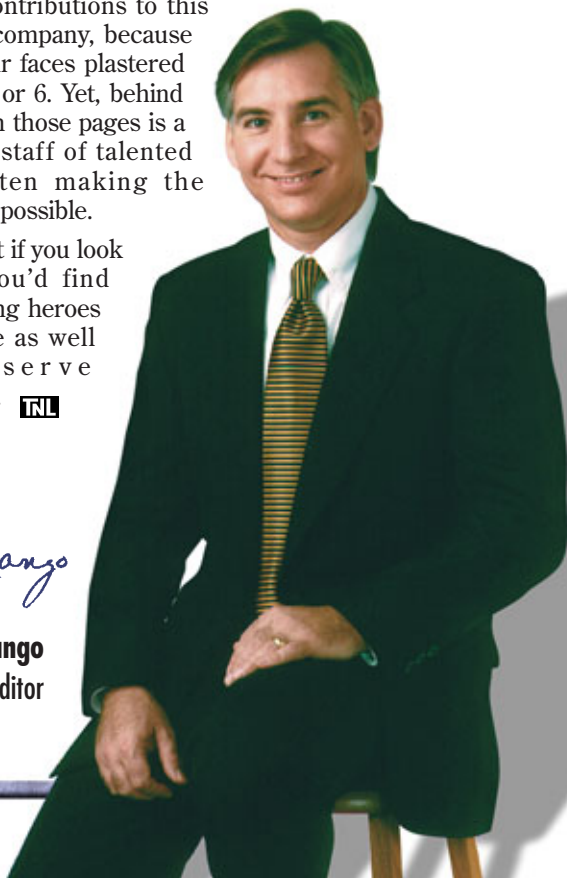
them and the knowledge and experience they bring, we would often be in a world of hurt. However, the occurrences of someone here going the extra mile is fairly common, whether it's the Art Director Jim Darow, Production Assistant Joseph Bonus, Administrative Assistants LaVerne Schertzing, Chandra Smith and Sean Selby, Shipping Manager Allan Galvez, Director of Sales & Marketing Jeff Adair or the Advertising Account Manager Debbie Schertzing (the company Matriarch), often pulling my fat derriere out of a crack at one time or another. Most of the time the extra efforts go unceremoniously, blending in with the daily ebb and flow of business, but they don't go unnoticed or unappreciated.

They say that behind every great man is a greater woman. I can say with certainty that behind every great company is a staff of unsung heroes. The ones I mentioned here do not receive the accolades they rightly deserve, or get the recognition from outsiders for their contributions to this magazine/company, because it's not their faces plastered on pages 5 or 6. Yet, behind the faces on those pages is a dedicated staff of talented people often making the impossible, possible.

I bet that if you look around, you'd find some unsung heroes in your life as well that deserve recognition. **TNL**



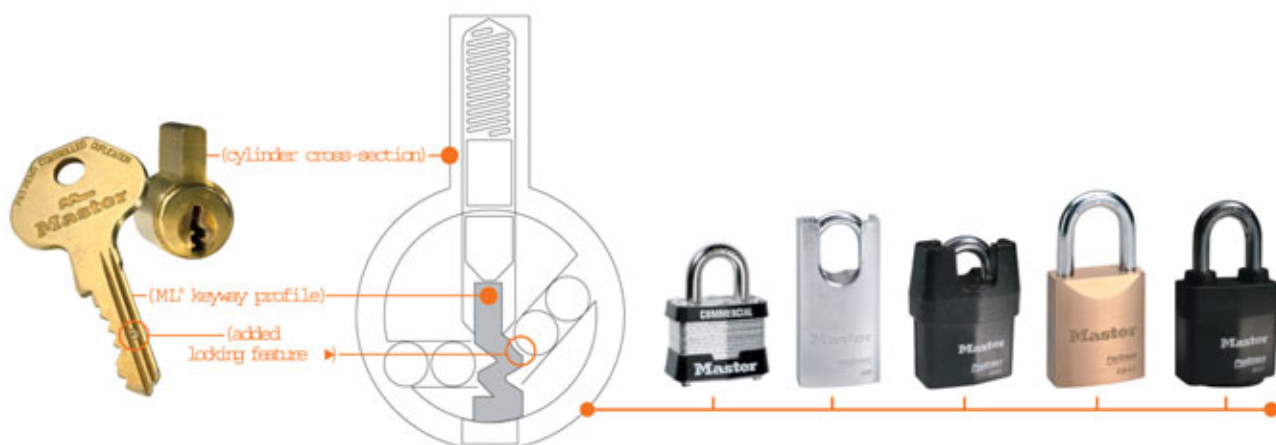
**Greg Mango**  
Editor







**Cut costs without downsizing security.**



**The new **ML**® key control cylinder system takes a bite out of crime. Not your budget.**

Key control. Everyone wants it, but not everyone can afford it. Until now. Master Lock's ML® system makes key control security a cost-effective possibility for virtually any business, thanks to an innovative added cylinder locking feature. And with its proprietary, restricted key blank designs, Master Lock's ML® system prevents unauthorized personnel from obtaining keys. Plus the ML® cylinder fits into almost any Master Lock padlock. Now you can offer greater security to your commercial customers, and lock them in to repeat sales from you. For more information, contact your participating Master Lock distributor or log on to [www.masterlock.com](http://www.masterlock.com), or call us at 1-800-308-9242.



# Letters

*The National Locksmith* is interested in your view. We do reserve the right to edit for clarity and length.

## A Great Safe Technician Passes On

It is with a heavy heart that we bring the news that Keith Knott passed away in his home town of Llano, Texas on March 13, 2004. For many safe technicians, Keith's name was legendary. Safe service was a passion for Keith, which he freely shared with all who were interested. Over the years, Keith developed unique tools, and techniques of his own to conquer any challenge. He was a great technician and a true gentleman who always had a smile on his face.

Keith often hosted weekend safe opening parties in his metal shop at his Llano home, while his wife Kathryn would cook up something special for all who attended. Kathryn passed away about a year ago, and we believe Keith did as well. They were the perfect couple, passionately in love with one another. Keith's official cause of death was lung cancer, but we believe his real cause of death was a broken heart.

Keith has left his mark in this industry and will be sadly missed.

## DiMark Departs

When is an end also a beginning? When two folks like Mark and Diane Pirman step out the door of DiMark International and into retirement, that's when!

We've enjoyed thirty years of serving locksmiths from America (and from other countries!) by supplying products from around the world that made our customers' jobs easier and more profitable. The retail customer has been able to buy quality products that otherwise might not have been available on your shelves.

Mark began working as a locksmith in Santa Monica in 1962. We married in 1965 and started our own locksmith shop and safe business in 1968. We bought our first Börkey key machines for that shop in 1974 after visiting the Börkey factory in Germany. Within weeks of their arrival we had orders for six more machines from local locksmiths and that is how DiMark International began.

Now we are on to new adventures before we settle down and grow old(er!) We are currently looking for a representative that will handle Börkey in the US market. We have found a very good company to handle the Junie line of furniture locks. Major Manufacturing will now make those locks available through your local supplier. The Burg-Watcher products are now sold through many other suppliers. We will use our website [www.dimarkinternational.com](http://www.dimarkinternational.com) for announcements once we close our doors, which is targeted for late April or early May.



Thank you for all the good years we've had together. We've made many friends in the lock industry, we've tried to serve you well and to work with you openly and fairly. One thing is certain—we will miss you.

Tailwinds to all,

*Mark and Diane Pirman*

## Harley Key Blank Change

The key blanks for the 2003 Harley Davidson Sportster is different than before. Blank X234 looks very similar, but is different enough not to slide into the locks. The old code series had only 13 to 16 changes and used depths 2 & 5. The new series also uses a #2 depth with some spacing. The old code series was usually one number with one letter. The letter determined the code. The new series appears to be two letters plus a single number on the other side of the blank.

Should the above information not make any sense please do not hesitate to call: (414) 282-7778.

*Tim Boyea  
Wisconsin*



**The National Locksmith**  
1533 Burgundy Parkway  
Streamwood, IL 60107  
Attn: Editor



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<b>No. 700KD</b>	<b>\$14.60</b>
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**American 2000 Round**

<b>No. 2000KD</b>	<b>\$14.55</b>
<b>No. 2000KA</b>	<b>\$15.05</b>

**MASTER & AMERICAN LOCK ANNOUNCE 6% SURCHARGE TO BE ADDED TO PRICES**

Master Lock Co. and American Lock have announced that effective April 1, 2004, a temporary 6% surcharge on all steel, brass & zinc content products will be implemented. This level of surcharge will be held for a minimum of 90 days. Changes will be communicated 15 days prior to their effective date. They cannot predict how long the current conditions of unprecedented escalation of these raw materials will remain. They have been diligently negotiating with suppliers but supply of these raw materials continues to deteriorate.

**NOTE: Be careful pricing any products containing these basics of hardware & key blank products. STAY ALERT TO EXPECTED INCREASES**

For Escort & Tracer 10 Cut

**1991-96 Escort Coded Ignition Assy. \$49.95 ea.**

<b>C42-291</b>	1991-93 Manual
<b>C42-292</b>	1991-93 Automatic
<b>C42-293</b>	1994-96 Manual
<b>C42-294</b>	1994-96 Automatic

See ASP Guide

**1996+ Ford 8 Cut Ign.'s**

<b>Taurus / Sable</b>	<b>Misc. Ford</b>
<b>C42-181 Coded</b>	<b>C42-184 Coded</b>
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<b>5/ @ \$15.95 ea</b>	<b>5/ @ \$15.95 ea</b>
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Cylinder key override standard. (SC1). Non-handed, assures versatility & ease of retrofit. 2-3/4" backset. For 1-5/8" to 1-7/8" doors. Uses 5 AA batteries.

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No. 2

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<b>7000</b>	<b>1000</b>
<b>L1000</b>	

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---	---

**STRATTEC VATS SALE**

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**2004 Chrysler TAN HEAD Alternate Key**

Use with Chrysler & Dodge mini-van & Pacifica as a less expensive alternate to the costly Integrated Button Head key. Not for use with 2004 Durango or 2005 Magnum or 300C. They are dealer only keys.

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'04 Tan Alternate  
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5/ \$11.99 ea.



# SECURITY

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# Cafe

*To see your product featured here, contact Jeff Adair or Debbie Schertzing at 630-837-2044.*

## GE Security Offers Three New Key Cabinets

GE Security's Supra Division has added three new key storage cabinets, which will securely store 30, 60 or 120 keys. The new Key Storage Cabinets employ GE Security's recently introduced QuickAccess keyless pushbutton lock, which eliminates rekeying by enabling end users to change the combination right at the lock as often as needed. To open, users simply enter an authorized combination code.

All three versions of the new GE Security key storage cabinets feature heavy 16 gauge steel construction with piano hinged doors to resist vandalism. Inside, key hooks can hold multiple keys on supplied key tags or hold them directly. The heavy gauge steel construction and QuickAccess lock have created a very reliable key storage cabinet. Lock components don't jam, combinations work and the lock is pry resistant because of the lock's innovative clutch mechanism. It can also be used easily in low light conditions.



## Master Lock Safety Series

While the Lockout/Tagout rules have been in force for 14 years, most of the products haven't changed during that time. The Safety Series™ from Master Lock offers a full line of innovative and easy-to-use lockout products featuring rotating gate valve lockout and electrical plug lockouts, adjustable cable lockouts, modular lockout kits, snap-on safety hasps, lockout wall stations, identification tags and labels and more.

After extensive LO/TO product research, Master Lock developed safety devices that offer a new level of convenience and user-friendliness. Together with Master Lock's broad line of safety lockout padlocks, the new Safety Series product line provides true one-stop shopping for safety lockout needs. The Safety Series also includes gate valve lockouts, ball valve lockouts, snap-on hasps, adjustable cable lockout, modular lockout kits, circuit breaker lockout devices and circuit breaker switch



## MARKS USA Locksets For Security Storm Doors

A new four-color brochure assists specifiers and buyers in selecting mortise locksets for ornamental security storm doors. Standard and thin line versions are available featuring screwless knobs and levers, proprietary no droop lever springs, cylinder collar security inserts and high strength solid steel hubs.

Lifetime mechanical warranty applies to all Marks USA products. Handsome design and solid construction have made these ornamental locksets the most popular in the country.





## Aiphone Open Voice Color Video System

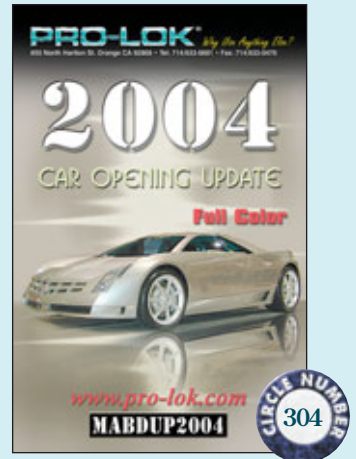
Aiphone Corporation has a new hands-free JB Series open voice color video entry security system. The system was designed for ease of use while providing exceptional viewing and communication capabilities within an access-controlled environment. When the call-in button is pressed at the door station, audio and video are instantly activated at the inside color video monitor. Then, by simply pressing the large talk button on the inside monitor, the hands-free VOX communication between door station and monitor is initiated. In addition, the system can monitor entry areas from any room station as well as providing all call between units.

The system features include door release contact, multi-color call-in LED and chime tone volume control. The 3.5" color TFT monitor provides a crisp, clear picture even in low light settings due to the built-in door station LED illuminators. The sleek, modern look of the video door stations allow for an attractive entry presentation.



## PRO-LOK 2004 Car Opening Update

The new 2004 Car Opening Update is here and available now. The 2004 update covers the latest foreign and domestic vehicles on the road. Written instructions on every vehicle along with full color photos of every opening method. Alternate methods included on the same page as the preferred method. Compact size 5-1/2" x 8-1/2". The 2004 update contains new models such as: the Acura TSX, Audi RS6, Buick Rainier, Cadillac SRX, Chevrolet Aveo, Colorado and SSR, Chrysler Crossfire and Pacifica, Dodge Sprinter and SRT-4, Ford Freestar, GMC Canyon, Kia Amanti, Lexus ES330 and RX330, Mazda Mazda3 and RX-8, Mercury Monterey, Mitsubishi Endeavor, Nissan Pathfinder Armada and Titan, Porsche Cayenne, Saturn Ion Quad Coupe, Scion xA and xB, Suzuki Forenza and Verona, Volkswagen Phaeton, R32 and Touareg, Hummer H2 SUT and more.



## Mul-T-Lock Series 500 Multi-Point Lock

The Series 500 Multi-Point Lock from Mul-T-Lock is designed for 2-point surface mounted rim type locking applications. Its versatile design offers vertical, or horizontal locking, and can be adjusted to fit almost any application. Constructed of aluminum alloy with hardened steel adjustable locking bolts, the 500 lock is easy to install, and strong in form.

Manufactured for commercial, residential, and industrial markets, the 500 Lock offers Security, Versatility, and Dependability, with an Attractive Design. Suggested applications include: metal or wood doors, sliding glass or patio doors, roll down gates, shutters, garage doors, cabinets, as well as many other controlled openings.



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For Service Stations  
Restaurants  
Laundromats, Stores, Etc**



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Security Guards  
for Washers  
& Dryers**

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Armor  
or  
Smaller Coin Box  
Guards with  
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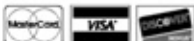
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## HPC Graphite Gun

Graphite and locks have gone hand in hand for many years, and it's no wonder. Because of graphite's unique properties, it stands out as the perfect lubricant for the extensive extremes that locks face everyday. Graphite is a powder, not a liquid, and since it is already in its solid state it holds up against extreme cold without freezing. In extreme heat you can also count on graphite to continue working while liquid lubricants tend to dry up.

Graphite acts like little ball bearings, allowing moving parts to slide freely. Unlike liquid lubricants, graphite does not attract dust, dirt or brass chips. Use it everywhere to loosen tight or dirty metal parts. HPC's Graphite Gun (HGG) has a unique design that earned it a U.S. patent. It is a spill-proof, clog-proof, refillable rubber squeeze bottle ideal for gently spraying fine graphite into small areas. Use some on every lock installation and re-key. Put a point-of-purchase display on your countertop and recommend one to each of your customers for years of trouble-free locks.



## Kaba E-Plex™ 5000

The new E-Plex 5000 combines the simplicity and reliability of Simplex® mechanical push-button locks with the added security and features of electronic access control. This is the latest addition to their line of stand-alone electronic access controls. Up to 100 individual user codes control access for an unlimited number of users. Manage users at the lock keypad, or with easy-to-use Microsoft® Excel-based templates. An audit trail of 3,000 events is transferred to your PC via the infrared data transfer function of various Palm™ compatible PDAs.



## CSS Modular Self-Checkout



Corporate Safe Specialists is ahead of the curve with production of its new Modular Self-Checkout solution. Self-Checkout technology is the latest labor saving and revenue-generating concept for retail businesses as indicated by a recent consumer study. IDC market intelligence found that nearly 70 percent of the global consumers say they would be likely to use self-checkout to achieve faster checkout and privacy. CSS goes beyond the traditional benefits of self-checkout by adding their own unique and dynamic features.

With its safe inside cash handling ability, it's both consumer friendly and cash management secure. By connecting to a wide variety of existing front office and bank office solutions, the Modular Self-Checkout can send shift or end-of-day reports to existing databases. It connects to existing POS, CCTV and Smart Safe systems, making it a tool in cash management both onsite or off.

## Kwikset Ultramax Security Products

Kwikset has introduced E-Z install, a patent pending device, which significantly reduces the amount of time to install Kwikset Ultramax Security doorknobs. The primary innovations in E-Z install devices are the pre-installed lead screws, and patented alignment plates which significantly reduce set up time and help avoid installation mistakes such as upside down or backward attachments.



E-Z installation instructions for Kwikset Ultramax Security are adjusting the universal latch or installing a new latch and strike, twisting the E-Z mount plate in place and tightening the screws, assemble the interior knob onto the spindle and rotate counter-clockwise to complete.

## STI's Stopper Sound

There's no more wondering what Safety Technology International's STI-1100 Stopper® II cover horn will sound like before purchasing it. With a simple click of the mouse, the sound comes to life. Customers are now able to hear the piercing horn alarm available on many of STI's products by going to the STI web site, [www.sti-usa.com](http://www.sti-usa.com), and going to the products area. Customers can choose which product they want to hear, click the "sound" symbol located under the product picture and listen to the sound.



This feature is available for the Stopper® II series, the Fire Extinguisher Theft Stopper®, Defibrillator Theft Stopper®, Life Ring Theft Stopper®, Mini Theft Stopper®, Exit Stopper®, Mini Stopper® II series and the Rex Plus Electronic Watchdog.

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STI-6400

Our Exit Stopper® can help prevent unwanted exits and entries at any given time.

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*"We protect the things that protect you."*



Safety Technology International, Inc.  
2306 Airport Rd., Waterford, MI 48327  
Phone: 248-673-9898 • Fax: 248-673-1246

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### Perma-Vault Pistol Box

Perma-Vault's model PV-1-PL Pistol Box is designed to provide firearm security while still allowing easy push-button lock access for the owner. Ideal for use in the home or by law enforcement agencies, the US made, 14 gauge steel, 11 pound pistol box has a comfortable suitcase style handle. It is strong enough to use as a carrying case, or can be bolted down for home or office security.

Secured with an Illinois Lock push button lock, the pistol box is lined with heavy duty felt on the bottom and sides and thick egg crate foam on the top. The pistol box measures 4-1/2" high by 12" wide by 10" deep.



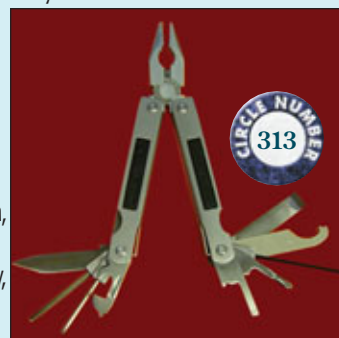
### Kaba Ilco Cam Locks

Kaba Ilco Corp., offers a full line of cam locks that are a simple, economical way to secure almost anything. Some of the most popular uses include residential furniture, doors and windows, gun cases and cabinets, liquor cabinets, kitchen and bath cabinets, tool boxes, electrical panels, alarms and lockers. The most popular cam locks are offered in a kit, which includes two cams and stop washers. Cam locks in any other configuration are available by special order.



### Lockmantools Multi-Tool

The locksmith Multi-Tool by Lockmantools has over 25 specific locksmith functions. Designed by a locksmith for locksmiths, the tool can service a variety of different hardware for Schlage, Baldwin, Corbin/Russwin, Lori, Adams Rite, Master Padlocks, Medeco, Arrow, Jackson crossbars and many others. The tool is made of bead blasted stainless steel for extra durability and folds up to 4" closed. A ballistic cloth carrying case clips onto the user's belt for fast access and convenience.



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## Schlage King Cobra Locksets and Narrow Stile Trims



IR Security & Safety's Electronic Access Control Division has expanded its line of manually programmable access control locks and trims with the new Schlage King Cobra series, which features iButton ports, 12-button keypads and standard builders cylinders. Comparably priced to conventional mechanical and electronic numerical code locks, the Schlage King Cobra locks store up to 100 codes and allow administrators to easily add or delete users in seconds.

Models are available for use with a wide range of doors, latches and exit devices including narrow stile aluminum doors. The King Cobra locks have an architecturally appealing design, can withstand the elements, and are available in five finishes and two lever styles. As a result, they complement any décor. The new locks operate on four off-the-shelf AA alkaline batteries, which provide 80,000-plus cycles or approximately three years life.

## Medeco's New Padlock

Medeco High Security Locks has a new "hockey puck" padlock - the first offering in Medeco's new 52-9300 Padlock Series. This new padlock replaces the company's old hockey puck-design padlock with improved features and benefits.



Styled in black chrome, the padlock has no shackle and offers unsurpassed attack resistance - in excess of 1,200 lbs. of force. The full-size cylinder, unique to this padlock, allows keying into standard master key systems and offers Medeco's patented key control protection from unauthorized key duplication. In addition to being compatible with master-key systems, the full-size, five-pin cylinder is flexible enough so that it is available in all Medeco keyway technologies, including KeyMark. **TNL**

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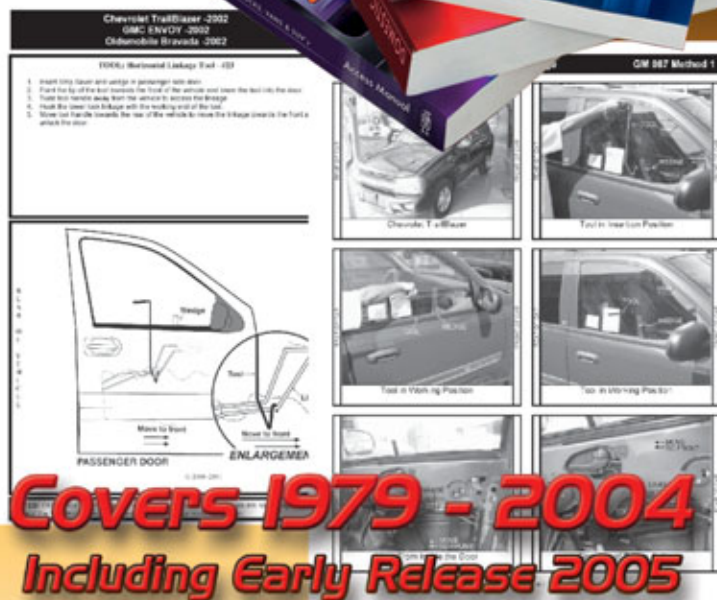


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# McOmie's HOT New Book

## Lift-Out Round Doors

Dave does it again in this brand spankin' new offering on some very common safes.



It's over 300 pages. It has tons of photos. It shows you drill points, relocker drill points, special tips and more. You'll know how to open every one of these puppies in moments when you take Dave McOmie along with you on the job.

These are by far the best photographs we've ever seen from Dave McOmie. They're huge, they're clear, many have arrows indicating critical

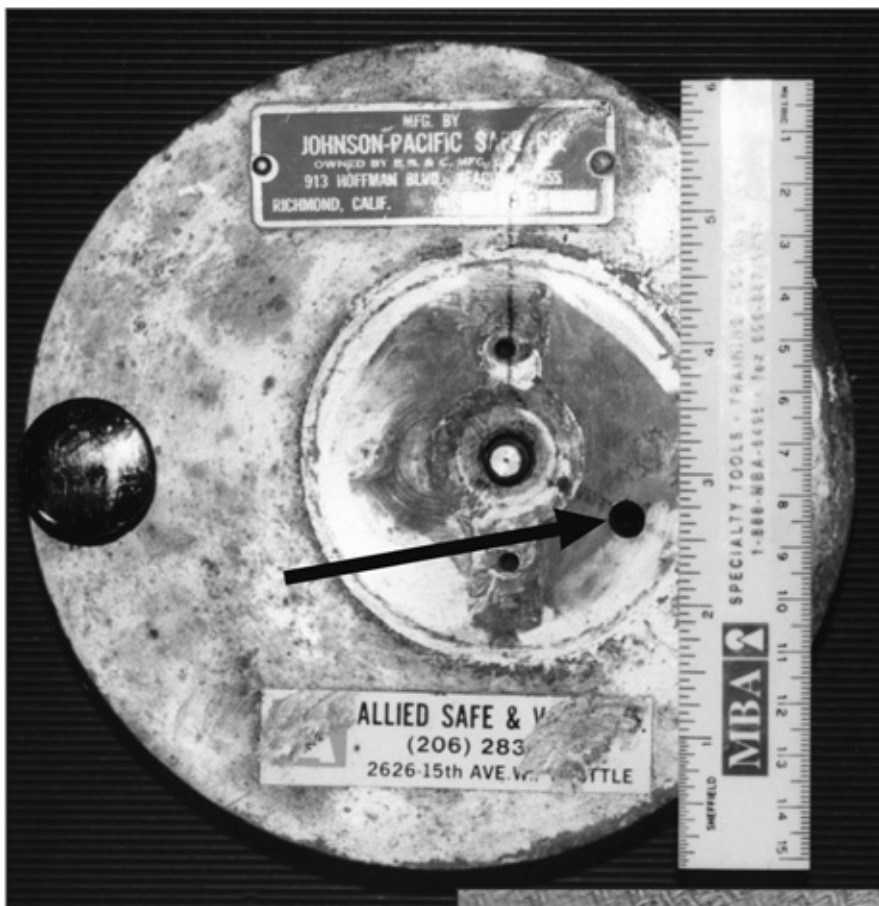
points, and they show you what's happening with that container...inside and out.

The next couple of pages are excerpted from *Lift-Out Round Doors*. We think it will both give you valuable information, and whet your appetite.

A huge and comprehensive list of manufacturers is covered in this volume. They include many safes from each of these makers:

Amsec/Star	Ehrlich	In-A-Floor	Maximum	Sentinal
Brinks-Mosler	EverSafe	Independent	Meilink	Sentry
Chubb	Fitting	Intersec	Mig-T-Safe	Snelguard
Churchill	Fletcher	Johnson-Pacific	Mosler-Protectall	StaFast
CompuSafe	Gary	Keep/Safe	Mosler	Star
Cramer	HP	Kewanee	Pacific	Taylor
D&S	Hadon	Kingdom	Pryor	Tower
Deluxe	Hermann	LaGard	Schwab	TU-KE
Diebold	Herring-Hall-Marvin	Loc-King	Sears	US Security
Dominion	Hurd	Lord	Secura	Victoria
DuJardin		Major		York

## ▷ JOHNSON-PACIFIC ◁ 6-1/4" Lift-Out Door



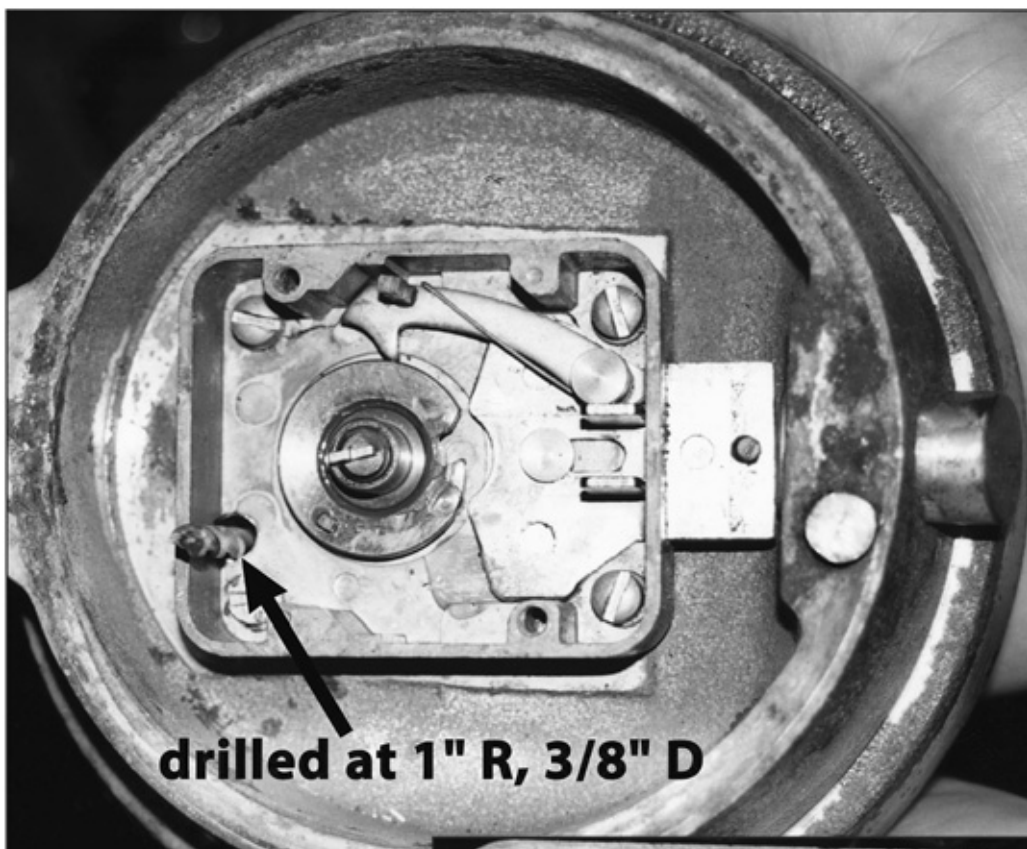
◀ The door diameter distinguishes this door from its slightly larger big brother, who comes with a slightly larger lock.

▶ Door bolt, relocker and spring. The RLDP is 2-3/4" L, 7/16" D.



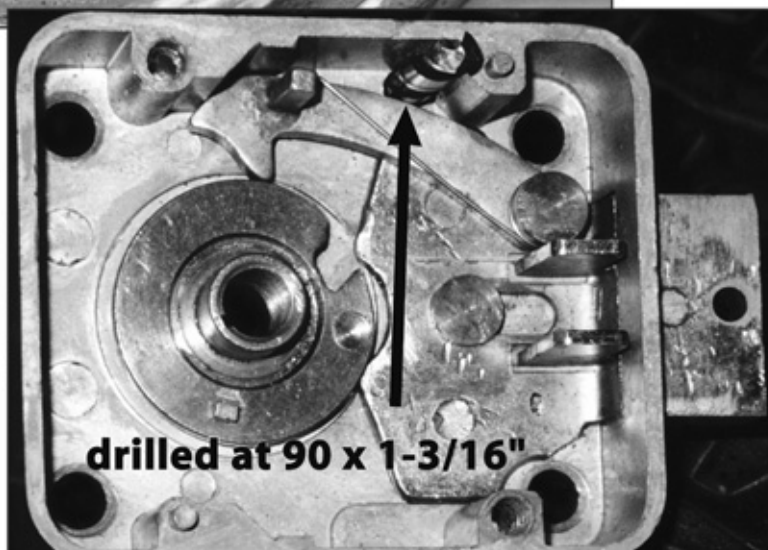


## ▷ JOHNSON-PACIFIC ◁ 6-1/4" Lift-Out Door



◀ There are three good places to drill an S&G 6709. If the lock has malfunctioned, drill off the fence at 97 x 1". If the lock is still functional and you desire a safe Scope & Transfer hole, then drill at 1" R, 3/8" D.

▶ If you own a high quality, small diameter scope, and if you enjoy precision, thread-the-needle drilling (as I do), drill at 90 x 1-3/16" (31/32" U, 11/16" L). Your hole will come out right in the tiny gap between lever and lockcase. Wheels and fence are visible -- no transferring necessary!



Lift-Out Round Doors • 171

Sample book page shown here (actual book size is 8-12" x 11")





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# Safe Security

A safe is one item that can truly protect and save valuable/irreplaceable information or items; yet far too few have one at their home or business. Today there are more manufacturers supplying a greater line of products than ever before, available in every shape and size for any application. There is nothing that beats it for true security and peace of mind, whether it is from theft or fire protection.

## • Academic Safe Company •

Their Graduate and Associate safe models were initially designed to provide in-room protection of personal property for students living in college residence halls, and for K-12 classroom teachers. These products are ideal for applications within the home, at businesses, and at school. The Graduate measures 17" W x 14" H x 9" D, and mounts anywhere in a room within minutes (on 16" studs) with

its wall-mount bracket assembly. The unique laptop cradle design allows the Graduate to efficiently secure any laptop computer, yet provides ample room for other items of personal value – wallets and purses, digital cameras, CDs, video game equipment, PDAs, and more.

As standard, the Graduate features a programmable electronic lock with digital display, and is secured with a highly reliable motor-driven two-bolt locking system. Each unit is powered by 4 AA batteries (which are easily accessible), and each safe is equipped with a Medeco mechanical key override.

Academic Safe also offers their Associate safe model. Roughly one-half the size of the Graduate, this model measures 17"W x 8"H x 9"D. Sized perfectly to secure purses and other items of personal belongings. The Associate can also be secured with a wall plate assembly, or can be fastened directly to the top or bottom of a shelf.

## • INKAS Safe Manufacturing •

The reputation of INKAS Safe Manufacturing has been built on their quality products, reliability and design, competitive pricing, delivery and customer service. In addition they are innovative, delivering new products year after year based on what their research and distributors tell them. This year is no exception.

First, they are proud to announce the designing of a new UL TL 15 that is lighter in weight than what



the majority of safe manufacturers can provide. Secondly they are also designing a lower end gun safe that will provide uncompromised security and exceptional value at an affordable price. Look for new products this summer.

• **Fort Knox** •

In an era that sees safe manufactures experiencing the need to have the lowest price to get sales, Fort Knox Security Products strives for perfection; especially the Guardian Series. New this year to the Guardian Series is our standard reinforced fire door. This addition nearly doubles the fire protection of the Guardian, moving it to 1680 degrees in 90 minutes. With the reinforced fire door, patented star corner bolts, a 5 to 1 reduction rack and pinion multi-gear drive locking system and their four stage, high luster baked acrylic urethane metallic finish, the Guardian Series sets the standard for the rest of the industry.

The precise production practices, allow Fort Knox to offer the industry's only true Lifetime warranty; which includes the Sargent and Greenleaf locks. This warranty is the icing on the Guardian Series. The Guardian safe by Fort Knox proves that a low price is never a substitute for true protection, purchase your perfection today.

*Continued on page 28*



**YOUR BEST VALUE**  
*Designed With The Professional Locksmith in Mind*

- ◆ Hardened Solid Steel and Brass Lock Bodies
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# LIGHTING AT ITS BEST



*L*ights are a necessity when opening cars today! Lights allow you to find the linkage rod guard plates, track hidden rods to a bell crank, identify sensitive components inside the door, determine your target area, minimize the chance of damage or wire tangles, make your job go quicker and maximize your ability to open a car professionally. In addition to car opening, many other uses will be found once you own one of these lights. Safe work, auto repair work, general machine inspection and confined space illumination are only a few of the wide range of applications for these lights. See what you've been missing.



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# See What You've Been Missing

## Hard Body LIGHTS

AL10500



2AA cell HardBody Light

AL15500



3AA cell HardBody Light

### Features

- "Switchless" Design • Aluminum Body • Powder Coat Finish • Suction Cup Clip • 18" Flexible Coaxial Wand • Slim Bulb Design • Bright Bulb • Clear Bulb Protector • Lifetime Warranty\*

We designed the Hard Body™ lights with you in mind. The machined high grade aluminum body is mated with a flexible 18" coaxial wand through a simple RCA connection. The elimination of a switch means a trouble-free light for you. In fact, you can't switch because there isn't any switch! If you've ever had an inspection light, you've probably cursed the switch. It would either turn on by itself, or not turn on when you needed it most. This light eliminates the problem altogether! You'll no longer need to worry about unreliable switches, because the HardBody doesn't have any! It's turned on through an RCA connection from the end of the wand to the head of the body. Connect it and it's on. Disconnect it, it's off. Simple as that.

The HardBody is made from machined aluminum and has a black powder coat finish. Even if you drop the HardBody, it won't break. We made the HardBody lightweight & versatile, to fit almost any car door. Using 3AA batteries, this light turns on and off by inserting or removing the flexible wand. Plug the wand in... its on, unplug and its off. The wand can be used straight or bent to any shape. It can actually be tied in a knot! The wand holds its shape and the supplied suction cup holds the light in place, leaving both of your hands free to do the work required. The Hard Body comes with a handy hard shell carrying case, to securely store the wand and the body. The design and construction are so great, it has a lifetime warranty. (excluding bulb) The slim bulb allows you into tight spots to avoid wire tangles and trouble spots. These lights come complete with a bulb, suction cup clip and protective storage case. Available in two versions: 2 cell-Broad Spectrum 3V bulb and 3 cell-Krypton 4.5V bulb. These lights are an inexpensive addition to your set of professional tools. Lifetime Warranty (excluding bulb)

6v

AL3700

6v



7.2v Makita®  
Powered Light Kit

AL3900

6v



9.6v Makita®  
Powered Light Kit

## Halogen LIGHTS

### Features

- Halogen Bulb
- "Switchless" Design
- Heavy-Duty Coiled Cord
- Suction Cup Clip
- Hard Shell Carrying Case
- Belt Clip on Adapter

When it comes to brilliance, there is no competition. The 1 amp draw of this halogen bulb is so powerful, ordinary batteries couldn't handle it, so we found something that could... your Makita® drill battery, or your vehicle's cigarette lighter socket. See inside the door, even in direct sunlight. These lights provide unparalleled visibility. Use your existing Makita® rechargeable drill battery (7.2v, 9.2v, or 12v) for power. (Makita type

batteries are available at most hardware stores.) This light gives you the brightest light in the industry. Just snap your battery into the adapter and plug the cord into the wand. The light is inserted right alongside the window wedge, lowered into the door and moved into position. Handy belt clip on adapter provides hands - free operation. After the car is unlocked, the light can be turned off by unplugging the cord or releasing the battery. Remove the wand from the door and replace it in the protective case.

12v

AL4100

12v



Cigarette Lighter  
Powered Light Kit

AL4200

12v



12v Makita®  
Powered Light Kit



• **PRO-LOK** •

These electronic safes are a great impulse sales item for retail stores. Each safe comes in an attractively printed full color box and includes a free steel box with each safe. These safes are perfect for homes, offices, R.V.'s, autos, boats, closets, dorm rooms and an affordably priced gift idea. The safes are also approved by the State of California for gun storage. It's easy to program & change your own combination in seconds!



Solid Steel construction for extra security, 2 steel locking bolts, electronic security lock, manual override key, removable shelf inside, cash box, and more. Available in 2 sizes: 13-3/4" x 10" x 10" (GLSF-08) or 15" x 12" x 12" (GLSF-10).

• **Perma-Vault** •

Perma-Vault's PRO-903-M, PRO-2217 and PRO-2225 through the wall depository safes provide security and protection from the elements. They are used by apartment complexes for rent drops, hospitals for medication or important document drops, and municipal complexes for utility payments. Available with many options, including mechanical or electronic locks as well as high security key locks. The units limit the amount of cash exposed to robbery, minimize the opportunity for employee theft and make employees more aware that their cash handling performance is being monitored.

The units can be sold in numerous applications to keep deposits secured and out of sight, reducing the



threat of damage by forcible entry at windows or doors, wherever deposits are visibly lying on the floor below a regular mail slot. In each situation, the public can make a deposit outside of normal business hours without business access. Perma-Vault's through the wall depositories can be installed utilizing an adjustable chute or with optional covers and locks, increasing security by allowing access to select individuals. In addition to cash drop boxes, Perma-Vault also manufactures "B" rate rotary hopper safes, cash till safes and front deposit safes. The company also manufactures custom products to meet specific needs of customers.

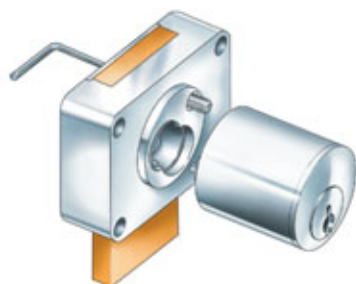
**Continued on page 30**

# STOCK LOCKS®

Standard Locks for Special Needs

**Shipped In  
24 Hours**

# The World's Most Complete Stock Program



**CompX**  
NATIONAL

**FULL PRODUCT LINE  
OF SECURITY LOCKS  
"THE ADVANTAGE PLUS"**

100 years ago **National Lock** began making quality cabinet locks and in 1968 founded the STOCK LOCKS® program, offering pin tumbler and plated disc tumbler cabinet locks plus a complete line of mail box locks.

With the addition of **Fort Lock** in 1998 the program was expanded to include STS capped single and double bitted disc tumbler locks and showcase locks.

With the addition of **Timberline Lock** in 1999 came a complete offering of small diameter, core removable replacement wood furniture locks and mechanisms.

With the addition of **Chicago Lock** in 2000 the popular ACE® tubular lock products were added to the STOCK LOCKS program.

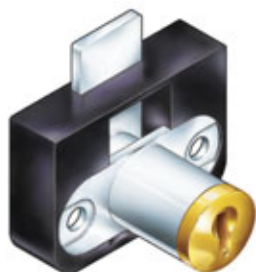


**Poly bags are color coded  
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coded. Multiple finishes  
available in stock.**

Together, under the **CompX Security Products'** umbrella, we offer over 1500 stock keeping units and represent 252 years of cabinet lock manufacturing experience beginning in 1903.

STOCK LOCKS is the broadest coordinated program of cabinet locks in the world, and **you can insist on the STOCK LOCKS brand** for your security needs.

**We were there for you then — and we're here for you now!**



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LOCKS FOR  
WOOD FURNITURE



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### • Gardall Safe Corporation •

Gardall Safe Corporation announced the release of its new Homeland Security Promotion. Included in the promotion are three popular safe models that are displayed on a carpeted 8' safe stage, a 6' x 2' vinyl banner, a poster and special promotional literature. The Homeland Security package is sold at a special discount that will help even the smallest shops participate.



The safes displayed cover three distinct levels of security and price. The MS912GE offers a 1-Hour fire label. The 1812/2 G-ME offers 2 Hour UL 1850 fire protection and a UL group II electronic lock, and the FB1212 G-C offers burglary protection and 2-hour fire protection. All three models have a center bolt down hole

and the anchoring hardware included.

Just like other safe promotions Gardall has put on before, this package is a good start for the locksmith that is not currently selling safes or the successful safe dealer that wants to add a new look to their current safe display. Take advantage of Gardall's Homeland Security Promotion to kick-start your safe sales.

### • Phoenix Safe •

Phoenix Safe International, LLC, now offers the PDT Series of UL TL-30 composite safes, which carry the UL TL-30 security rating as well as a manufacturer's Class 350-1hr. fire rating. The safes feature a UL Group 2M manipulation resistant combination lock with a spy proof dial. A sophisticated glass relocking system activates multiple relockers when attacked. Safes utilize heavy duty 1.5" diameter steel bolts and reinforced bolt chambers, and feature high quality adjustable door hinges.

There are 7 models to choose from ranging in capacity from 2.43 cu. ft. to 25.27 cu. ft. The 3 smallest sizes are kept in stock for quick ship purposes, and the larger safes are usually available in 2-4



weeks. Freight is included in the pricing for shipment anywhere within the 48 contiguous US states, and Phoenix's minimum order is 1 product.

### • A&B Safe Mfg. •

The Viking Stainless is the first innovation in fire and burglary protection in many years. Quality construction and state of the art composite fill are used to produce a safe that is strong, functional and also attractive. The safes are available with combination lock, key lock, or electronic lock. Viking comes in nine models.

A&B has been designing safes for over 35 years. Frank Bernath, founder of A&B Safe, began building safes in Chicago in 1964 with an old wooden lathe modified to cut steel and a welder. The first safes Frank designed and built were the AB-1 and the AB-2. The AB-1 was a mid-sized B-rate safe with a rotary hopper on the top to accept large deposits such as bank bags. The AB-2 was a shoebox-sized safe that had a slot in the top to accept envelope-sized deposits.



• **HPC Wall Safes** •

Security has become extremely important to most people. As Security Professionals, you already know how to secure your customers' premises. Often people ignore the need to secure valuables in their home or business. By supplying them with a safe, you can provide them with added security for their money, jewelry, and other valuables. HPC has been manufacturing safes for over 10 years. The safes are designed for mounting within a wall in homes, offices, and retail establishments. They are available in two sizes; the small version has an interior capacity of 475 cubic inches, the large safe has an interior capacity of 670 cubic inches. Both sizes are offered with two different options for locking mechanisms; a 7-pin tubular lock or a combination lock. The combination lock is the LaGard model 3330 Group 2, that allows over 750,000 possible combinations.



The safes are made using 18-gauge steel. The lock area and door face use 14-gauge steel for greater security. All locking points and hinges are made with dual reinforced steel for added strength in these critical areas of the safe. The safes are finished with a textured paint in a neutral sand color, allowing them to fit in with most office environments. The hinge and lock mechanisms are below the surface of the door, allowing the safe to be mounted flush with the wall. This makes it easy to hang a picture over the safe to hide its location in a home. Even with these many features, these safes are priced very competitively. For complete details on the HPC Wall Safes, please visit the Security Storage section of our web site, [www.hpcworld.com](http://www.hpcworld.com) or contact an authorized HPC distributor. **TRU**

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- Add your own code cards
- Cad cam graphics of keys show Depth & Space
- More vehicle openings
- New code series

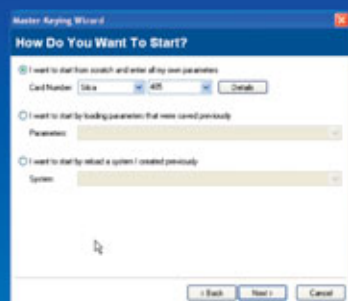
**Additional features...**

- Free internet updates mean no waiting for new codes & features
- Transponder programming info onboard
- Vehicle look up by make, model and year
- ASP part numbers and labor times



**Create a Master Key System, first window.**

**Main permutation.**



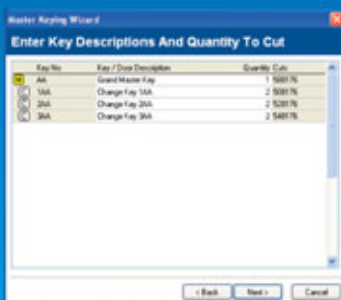
**How do you want to start?**



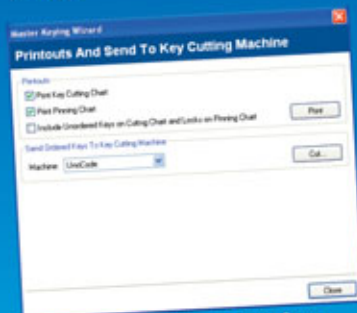
**The solution.**



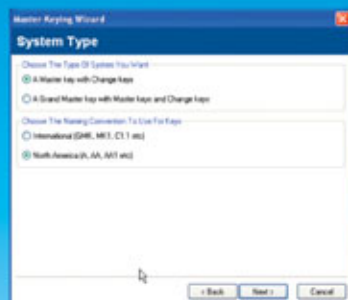
**Modify parameters.**



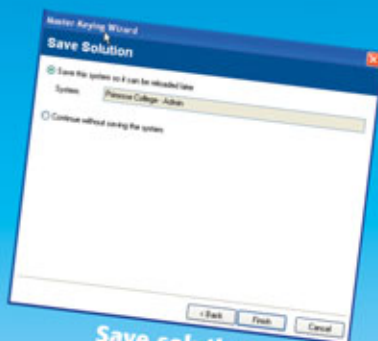
**Key descriptions and quantities to cut.**



**Printouts and send to key cutting machine.**



**System type.**



**Save solution.**

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Search on any combination of criteria	✓	?	Find partial biting	✓	?
<b>DATA</b>			Progression chart to eliminate wastage	✓	?
6000 series • 2.5 billion codes	✓	?	Shows picture of cut key	✓	?
99 key blank manufacturers	✓	?	Stores key hook for each key blank	✓	?
Key blank cross reference	✓	?	Stores client information	✓	?
Key blank profile pictures	✓	?	Stores user notes against each series	✓	?
Key blank pictures	✓	?	Supports laser and plunge cut keys	✓	?
Vehicle opening instructions	✓	?	Your choice of display units (inches or mm)	✓	?
Transponder programming instructions	✓	?	Select manufacturer, model, key blank, etc from list by typing in first few characters	✓	?
Complete ASP catalog with color pictures	✓	?	<b>PRINTING</b>		
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Lock wafer positions	✓	?	Print a whole series	✓	?
<b>ELECTRONIC MACHINES</b>			Print the current code and it's data	✓	?
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Silca UnoCode 299	✓	?	Choose letter or A4 size paper	✓	?
Silca UnoCode 399	✓	?	<b>THE SOFTWARE</b>		
Ilco UltraCode	✓	?	Cad Cam drawing of key graphically shows depths and spaces	✓	?
ITL 9000	✓	?	Intuitive user interface	✓	?
ITL 950	✓	?	Live updates from the Internet	✓	?
CodeMax	✓	?	Supports mouse and keyboard	✓	?
ECM 200	✓	?	Microsoft Windows application	✓	?
<b>MANUAL MACHINES</b>			Licensed to run on 5 machines in the same office	✓	?
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HPC Punch	✓	?	Step-by-step manual	✓	?
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# PRO-LOK<sup>®</sup>

## Car Opening

# Exposed

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**Crown Victoria 03**

**YEAR:** 1998 -

**LINKAGE:** HORIZONTAL

**PICK:** CCW DSO

**TOOL:** AO-41

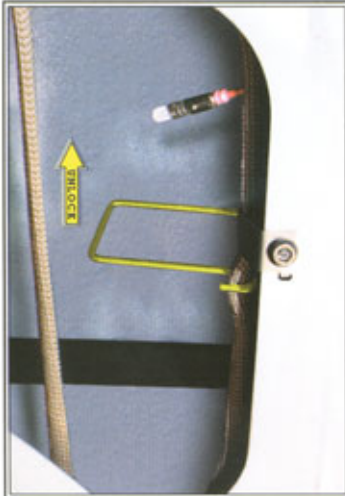
"Behind the Glass Tool"

**FORD**



**PREFERRED OPENING METHOD**  
This model was redesigned for 1998. This model opens the same as the Mercury Grand Marquis and Marauder.

1. Insert a wedge at 6" forward of the split window divider of the rear passenger door.
2. Insert an inspection light into the door cavity at 8" forward of the split window divider and identify the 2 cloth covered horizontal rods.



**ALTERNATE OPENING METHOD**

3. Insert the squared U end of an AO41 "Behind the Glass Tool" at 3" forward of the split window divider, tip facing rearward. (Photo 2)
4. Lower the AO41 7 1/2" into the door cavity and rotate it 45° clockwise. Position the tip of the tool on top of the cloth covered upper horizontal rod. Twist the tool to bind the rod. (Photo 3)
5. Slide the horizontal rod forward to unlock the door.



1. Insert a Pump Wedge at 11" from the front edge of the window glass of the rear passenger door. Inflate wedge.
2. Insert the "U end" of an AO01 "Slide Lock Tool" at 2" from the front edge of the window glass, tip facing rearward.
3. Lower the AO01 12" into the door cavity. Rotate the tool 45° clockwise and seat the tip of the tool next to the vertical rod. When you contact the vertical rod, you will see button movement.
4. Lift the tool to position the tip of the tool under the vertical button head. (Photo 4)
5. Lift the vertical rod and button head slowly to unlock the door.





## Amanti 01

YEAR: 2004 -

LINKAGE: HORIZONTAL

PICK: CW DSO HIGH SEC

TOOL: AO-36

"MCOT-Long Tool"

KIA

### PREFERRED OPENING METHOD

This vehicle is a new 4 door sedan for 2004. This model has cable linkage in all doors.

1. Insert a Pump Wedge at 2" from the front edge of the split window divider of the Rear Passenger door. Inflate wedge.
2. Insert an AO33 "MCOT- Separator Tool" at 15" from the front edge of the split window divider, lip facing rearward. Insert an AO36 "MCOT-Long Tool" at 9" from the front edge of the split window divider, lip facing forward.
3. Lower both tools into the door cavity. Rotate both tools beneath the bottom edge of the window glass. Deflate wedge. (Photo 2)
4. Lift the AO33, gradually working the tip of the tool into the vehicle interior. Lift the AO36 into the gap created by the AO33. Rotate the AO36 45° counter-clockwise and position the tip of the tool in front of the manual lock-unlock button.
5. Rotate the manual lock-unlock button rearward to unlock door. (Photo 3)



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## PONTIAC

## Sunfire 02

YEAR: 1995 - 2002

LINKAGE: HORIZONTAL

PICK: CW

TOOL: AO-39

"Double Slide Tool"

### PREFERRED OPENING METHOD

This opening method is for the 4 door model. Introduced in 1995 to replace the Sunbird. Discontinued in 2003. This model opens the same as the Chevy Cavalier.

1. Insert a wedge at 12" from the rear edge of the door frame of the front passenger door.
  2. Insert an inspection light at 15" from the rear edge of the door frame and identify the 2 horizontal rods. The upper rod is the lock rod.
  3. Insert the long end of an AO39 "Double Slide Tool" at 10" from the rear edge of the door frame, lip facing forward. (Photo 2)
  4. Lower the AO39 10" into the door cavity and rotate it 90° counter-clockwise. Lift the tip of the tool to contact the upper horizontal rod. Seat the tip of the tool under the upper horizontal rod. Twist the tool to bind the rod. (Photo 3)
  5. Slide the horizontal rod forward to unlock the door.
- ### ALTERNATE OPENING METHOD
1. Insert a Pump Wedge 3" from the edge of the split window divider of the rear passenger door. Inflate wedge.
  2. Insert an AO35 "MCOT-Wide" tool 10" from the edge of the split window divider, lip facing forward.
  3. Lower the AO35 into the door cavity and rotate it beneath the bottom edge of the window. Deflate and remove wedge.
  4. Lift the tool, gradually working the tip of the tool into the vehicle interior. Rotate the tool counter-clockwise and position the tip of the tool in front of the lock-unlock button. (Photo 4)
  5. Rotate the lock-unlock button rearward to unlock the door.

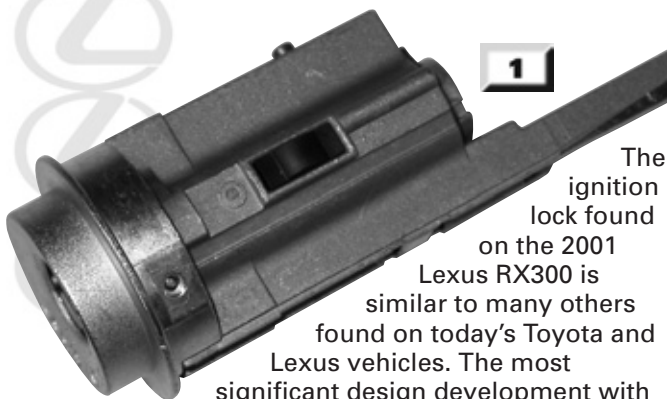


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2001  
**LEXUS**  
 RX300 Ignition Cylinder

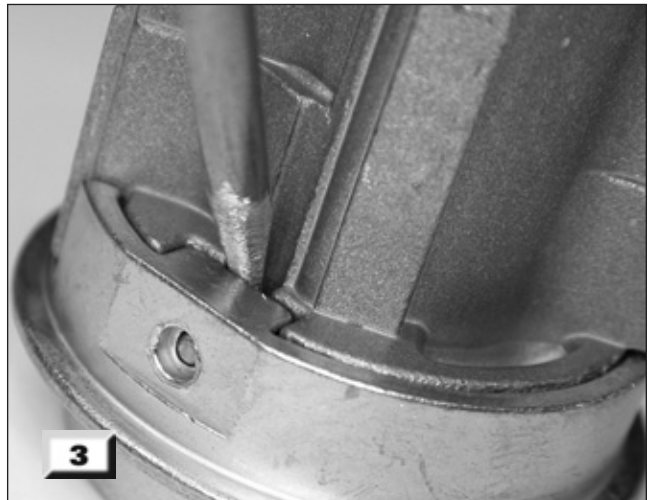
by Brook Francisco



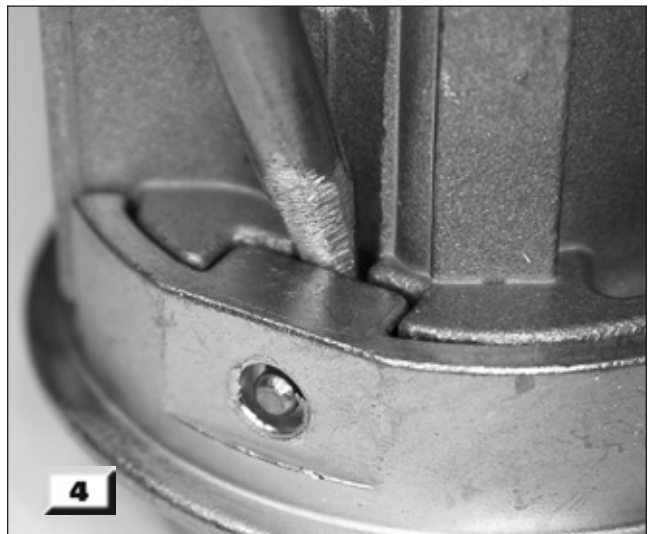
The ignition lock found on the 2001 Lexus RX300 is similar to many others found on today's Toyota and Lexus vehicles. The most significant design development with this new generation of ignition locks has been the introduction of the improved hardened face cap that is secured by three solid roll-pins. This model uses the new internal cut High Security Lexus short key blank (TOY 48 BT4) and the code series is 40,000-50,000. This code series has 3 depths; 1, 3 & 5 and the code series is unpublished at this time. Lexus has had problems with these ignitions since they were introduced and has had to eliminate many code combinations in the series because the key would pull out in the "RUN" position. Auto Security Products part number for this particular ignition is C-30-192 and the wafer kit is A-30-111. Original Lexus part number is 89073-48020.



The first step is to remove the three solid roll-pins that secure the hardened face cap to the lock housing.



The two roll pins behind the "LOCK" and "START" positions are fairly easy to remove. Insert a sharpened drift punch between the lock housing and the back of the roll-pin at an approximate angle of 55 degrees. The idea is to get the punch to make contact with the back of the roll-pin and push it forward.



Hit the punch sharply with a hammer. The punch should push the roll pin slightly forward. Note the position of the roll-pin as it has been pushed forward. Repeat the process for the roll-pin behind the "START" position.



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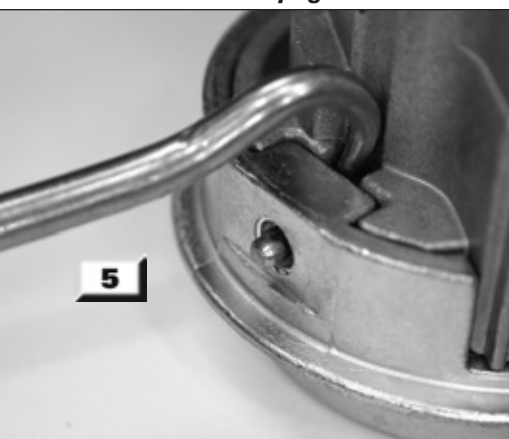


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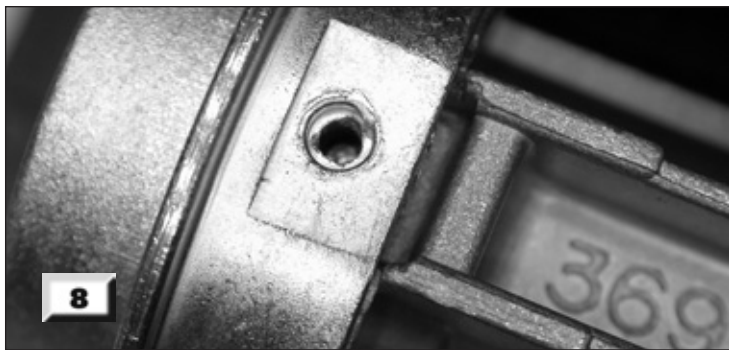
Next, insert a hook pick behind the roll-pin and push it out further. You don't need to remove them completely, just push them out enough so they have clearance over the lock body housing when the face cap is removed.



The third roll-pin, located at the 6 o'clock position is a little more difficult to remove because there is no easy way to push it out from the back.



After securing the lock horizontally in a vise, use a sharp drift punch and a hammer to push this pin downward into the soft lock cylinder.



You will be able to feel the pin "sink" into the cylinder as you punch it. Don't go crazy here, you just need to push it down far enough to allow clearance for the face cap to come off.

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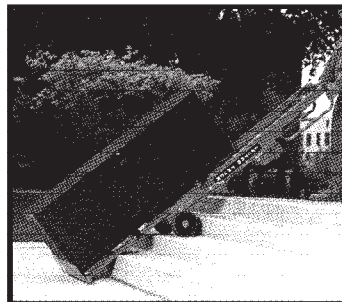
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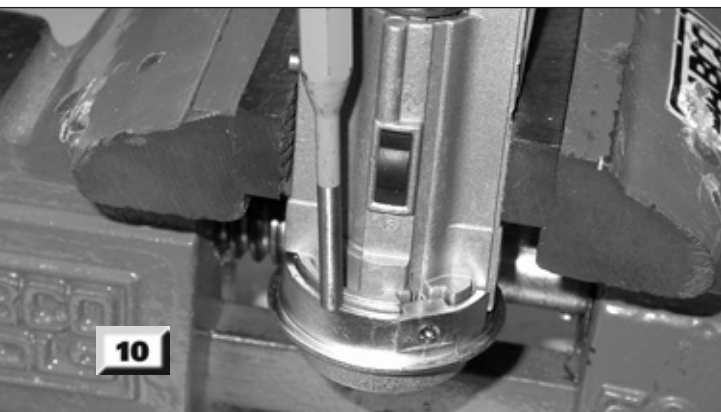
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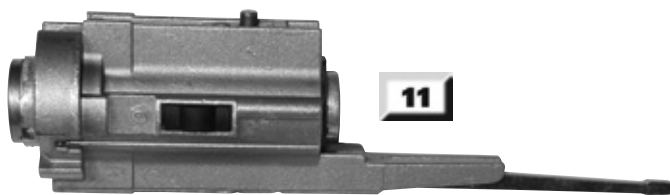
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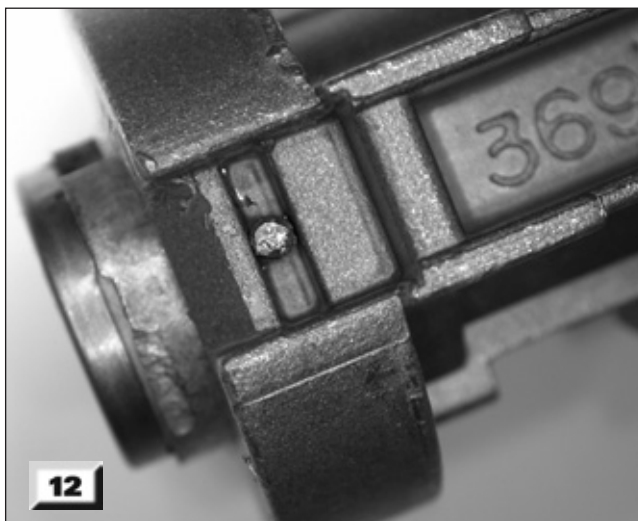
Now remove the lock from its horizontal position in the vise, and secure it vertically as shown. Note the position of the active retainer that helps the lock from slipping out of the vise.



Use a regular drift punch and hammer to remove the facecap from the lock assembly.



Now that we have the facecap off, we can easily remove the third roll-pin that we hammered down into the cylinder.



The remaining pin must now be removed.

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13

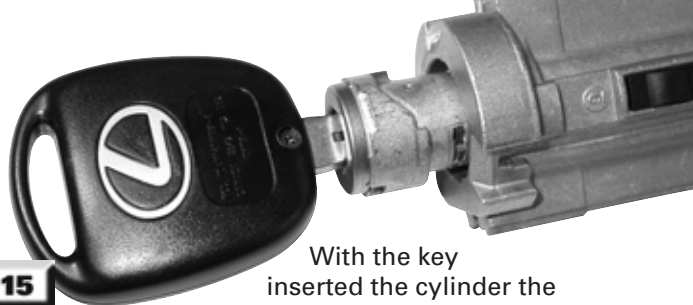


Use pair of long nose pliers to remove the remaining pin. It will come out easily.

14

Use snap-ring pliers to remove the clip at the rear of the cylinder.

15



With the key inserted the cylinder the plug will now come out the front of the lock. Lift upward on the key buzzer and be careful that the key does not jump out of position when you are removing the cylinder from the housing. If this happens, the cylinder may become jammed and you will have a very expensive paperweight.

16



The lock and all its components.

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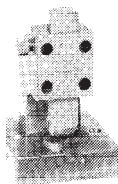
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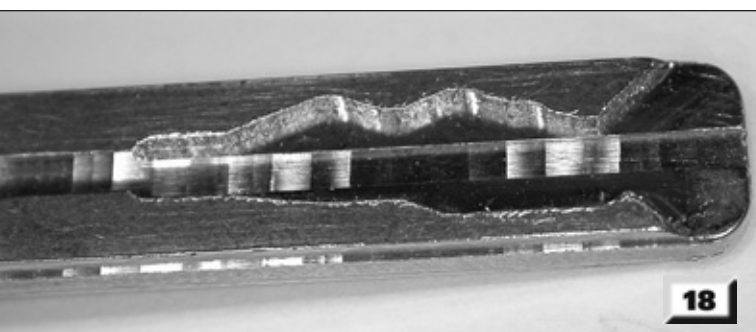
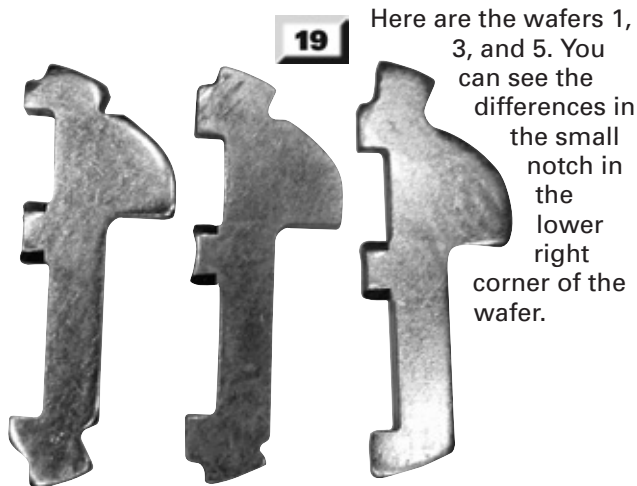
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The customer had a new key from Lexus.



Decoding it we can see the left-track cuts bow-to-tip are: 1-3-1-3-5. The right-track cuts bow-to-tip are: 3-3-1-1-1. Remember, the 1's are the deepest, and the 5's are the highest.



The cylinder pinned correctly.

TNL

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ASSA cam locks can be master keyed into the most complex key systems, including any ASSA master key system in existence, without the loss of any combinations. These cam locks use all nine bottom pins and all eight master pins. The locks also use special hollowed out driver pins that enable six-pin ASSA keys to enter and operate the lock. This allows users to upgrade their security by the installation of these cam locks, without having to reconfigure the entire master key system. The locks have earned an Underwriter's Laboratory listing of UL 437, the rating given to locks that show superior resistance to physical attack or tampering.

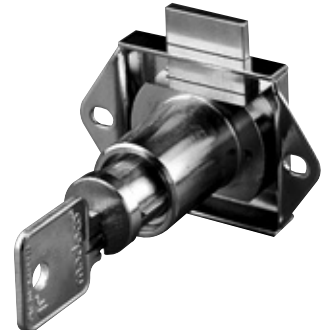


The locks feature a body and plug made of chromium-plated brass. This tough design makes them perfect for use in all types of uses, such as inner safe doors and compartments, cash storage containers, drug carts, gun cabinets, key storage cabinets, and more. ASSA's cam locks are available in two versions: a 360° version that allows the lock to be left in the locked or unlocked position, and a 90° version that retains the key and only releases it when the unit is locked.

## **Medeco**

Medeco high security cabinet locks are specifically designed for drawer or cabinet door applications where a conventional utility cam lock may not be suitable. They feature solid brass and steel construction for smooth and reliable operation. More

importantly, they offer high security key control to help protect sensitive storage areas. Cabinet locks utilize heavy-duty steel bolts and multi-point attachment to the mounting surface in order to withstand the heavy use and higher physical security many applications require.



Different from conventional cabinet locks, they are an ideal compliment to high security door locks for drug or chemical storage rooms, medical facilities, storage cabinets in retail environments or any other area requiring security cabinet-style storage. Showcase locks and plunger locks are also available. Medeco cabinet locks are available in either fixed or removable core models and are available with either deadbolt or spring latches. Additionally, Medeco's cabinet locks can be keyed into a facility's master key system.

## GE Supra

GE Supra announced its new QuickAccess keyless cam lock, which helps OEM and locksmiths better access the growing mechanical keyless cabinet/enclosure lock market. QuickAccess allows customers to replace unreliable keyless or key-based mechanical locks by incorporating a camshaft for cabinet doors, desk drawers and similar applications to its patented G2 push-button lid. As a result, end users can now more reliably protect valuables, while being able to easily change combinations right at the lock, as often as needed.



To open, users simply enter an authorized combination code. With the new QuickAccess push-button cam lock, manufacturers and locksmiths can create their own lines of easy-to-secure medicine chests, gun boxes, liquor cabinets, home entertainment units,

courier pick-up boxes, cleaning supply cabinets, tool chests, private files, display cases, supply cabinets, petty cash drawers and other storage enclosures; bringing new value-added solutions to the market.

## Jet

Jet Hardware is pleased to announce the addition of an entire new line of products—Utility Locks. They consist of cam, wood drawer, file cabinet, showcase and mailbox locks. The majority of the locks will be available in chrome or brass, keyed alike or random keyed with either disk or pin tumbler and tubular keyways. All of the locks will be packaged in poly bags with a header that may be hung on peg hooks or neatly folded down for bin storage.



Their initial offering consists of the most popular sized cam locks packaged with two cams. Both nut and clip on features are offered on mailbox locks packaged along with five of the most popular cams. Additional cams and a service kit is also featured.

## Frank J Martin Co.

Combi-Cam, a division of the Frank J. Martin Company introduces their new Combination Cam Lock. Great for Schools, Hospitals and other environments where keeping track of keys is a hassle. Ideal for cabinet doors & drawers, lockers and security boxes. The Combi-Cam replaces any standard  $\frac{3}{4}$ " keyed cam lock. It has 3 cylinder lengths:  $\frac{5}{8}$ ",  $\frac{7}{8}$ " &  $1\frac{1}{8}$ " which accommodate  $\frac{3}{8}$ ",  $\frac{5}{8}$ " &  $\frac{7}{8}$ " material thickness respectively. The durable Combi-Cam is solid metal and has 1,000 possible combinations.



Changing the combination is easy to do at anytime. Simply have the combination on the opening number and press in the reset button while setting your new combination. Release the button and the new number is set. The Combi-Cam comes standard with a pronged washer for wood applications, a  $\frac{1}{2}$ " straight cam and a  $1\frac{1}{4}$ " straight cam. The  $\frac{1}{2}$ " cam can be placed in 90-degree increments and the  $1\frac{1}{4}$ " cam can be placed in 45-degree increments.

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## Illinois Lock

Illinois Lock D900 series push-button locks are ideal for security applications where a combination is preferred to a key or card solution. More robust than comparable push-button locks, the D900 Series has been specifically designed for durability and long life. The D900 model mounts securely in sheet metal or wood, and is dimensionally accurate for retrofit with existing locks in either the horizontal or vertical orientation.



Some product features include easily re-settable combinations, lost combination reset function, large easy to read buttons, and its ergonomically designed santoprene molded knob.

## CompX

CompX Security Products manufactures the most complete line of cam locks in the world with over 250 years of combined manufacturing experience. With their four brands, CompX National, CompX Fort, CompX Timberline and CompX Chicago they manufacture both disc and pin tumbler cam locks, as well as tubular cam locks and cam locks with a removable core feature. From their stock locks program they provide over 1500 products that are shipped 97% complete within 24 hours from their two distribution warehouses in Mauldin, SC and Rancho Cucamonga, CA. From this unique distribution program they provide locks keyed alike, keyed



different and masterkeyed and also provide multiple finishes.

Disc tumbler locks are manufactured of die cast material while most pin tumbler produced from solid brass material. The cam locks range from cylinder lengths of 5/8" up to 1-3/4" and are packaged individually in poly bags with two keys, two cams, spur washers, trim washers and a mounting nut. Applications cover door and drawer, double door and locking systems. CompX Security Products is supported by a worldwide distribution channel network that covers the entire United States, Canada and other countries. **TNI**

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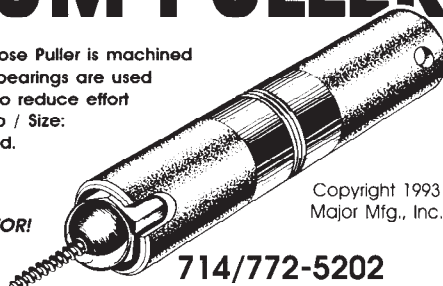
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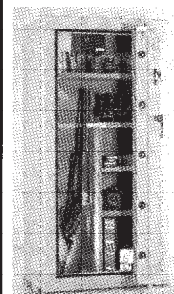
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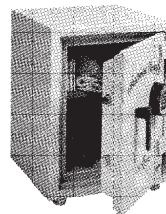
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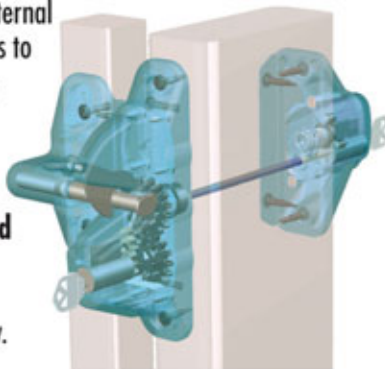


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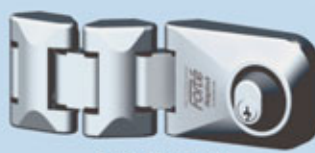
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# Kwikset

## COMPETITIVE

### Keyway Cylinders



by  
**Sal Dulcamaro,**  
**CML**

**K**wikset is now offering a number of its lock models with the option of competitive keyway cylinders. If you order a Kwikset lock, you are no longer stuck with just the KW1 keyway. If you wanted to adapt a Kwikset lock to say a Schlage SC1 keyway, simply switch out the included lock cylinder and switch it with one of Kwikset's new SC1 competitive keyway cylinders.

The three different lock models offering competitive keyway cylinders that I will cover in this article are currently listed as part

of the "UltraMax Security" product line. The first one is the model 740 key-in-knob lock, which was previously identified with the Titan product line (*see photograph 1*). One notable difference between this version and the Titan version is the key design. If you look at the picture, the operating keys look like standard Kwikset keys (with three pie shaped cutouts in the bow to create the letter "K"). It does, however, have the top and bottom shoulders uneven. The bottom shoulder is set back further in the direction of the key's bow just like the Titan keys. Only the bow shape itself is different. Both styles of keys are compatible and if out of stock of either, you could easily substitute one for the other

and know that keys copied on the other blank would still work.

Another difference between the current generation UltraMax model 740 and the older Titan model 740 can be found on the interior knob side (*see photograph 2*). For an improved aesthetic appearance, the mounting screws are now concealed. If you looked at a Titan model 740, the mounting screws would be visible.

The Kwikset model 740 knob lock cylinder is key removable with a specially designed control key (*see photograph 3*). It is, for all practical purposes, a key with a notched slot on the bottom of the key blade with the operating key cuts duplicated on it. That control key will operate the lock itself (if



**1. The Titan product line.**



**2. UltraMax model 740 and the older Titan model 740 can be found on the interior knob side.**



**3. A specially designed control key.**



**4. The spring-loaded cylinder retainer.**



**5. When retracted the cylinder releases.**



**6. The notch in the key lines up with the position of the retainer.**



**7. The retainer still protrudes.**



**8. Kwikset cylinder removal tool.**



**9. The clip can be easily grabbed and removed.**

you chose to use it that way), but it is used primarily to remove the lock cylinder without having to disassemble the lock first.

If you insert the key and rotate the key 90-degrees counter-clockwise, you will allow the spring-loaded cylinder retainer to draw inward (*see photograph 4*). That releases the cylinder and allows it to be pulled out of the knob (*see photograph 5*). With the cylinder out of the lock, I have positioned one of the spare control keys to show how the notch in the key lines up with the position of the retainer on the lock cylinder (*see photograph 6*). The spring-loaded retainer drops into that notch when the key is so positioned.

With an operating key rotated to the same position, the retainer still protrudes and (if installed in the knob itself) would prevent the cylinder from just coming out in your hand (*see photograph 7*). Only a notched control key (or an operating key with a similar

notch filed into it) will allow the retainer to retract to remove the cylinder. One exception to that is that if you could pick the lock so that the plug is rotated to the same position, the absence of a key in the keyway would allow the retainer to retract. Therefore, if you didn't have a control key, you could pick the lock in order to remove the cylinder also.

There is a general resemblance between the lock cylinder in a model 740 knob lock and the older design model 400

Kwikset knob lock. When the cylinder is out of the lock, they are serviced nearly the same. The wide end of the Kwikset cylinder removal tool can be used to help slide up the retainer/ C-Clip (*see photograph 8*). When it is moved high enough the clip can be easily grabbed and removed (*see photograph 9*).

The plug can then be easily removed by inserting a current operating key and following out the plug with a plug follower (*see photograph 10*). This step is nearly identical to removing the plug from a Kwikset model 400 knob

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**10. Following out the plug with a plug follower.**



**11. The notch built into the plug itself.**



**12. The alternate notch is found on the left side of the plug.**



**13. A keyway broaching compatible with the Schlage "C" keyway.**



**14. Turning the control key 90-degrees counter-clockwise allows the retainer to retract.**



**15. The keyway is deep enough to accept the 6-pin length key.**

lock cylinder, but I'd like to make a few suggestions. Earlier, I indicated that it was technically possible to use a control key as an operating key. The control key could also be used as the operating key for the plug removal operation just mentioned. There are, however, a few very important things to remember about the control key.

The control key is unique to each lock, or group of locks that are either keyed alike or master keyed. The primary distinction between an operating key (or master key for master keyed locks) and a control key is the notched cut on the bottom of the key. The cuts on the control key must be able to operate the lock (rotate the plug) in order for the notch on the bottom of the key to orient toward the retainer. The quickest way to create a control key is to copy an operating key (or master key) onto a control key style key blank, or just to file a notch (in the retainer position)

on the existing key. I don't suggest that you give the control key to the customer. If they mistakenly think it is just another spare key, they will likely use it and have the cylinder come out in their hands.

If you use the control key to remove the plug for servicing, do not orient the plug so that the retainer is retracted. I will explain this more clearly in a bit, but if the retainer is retracted, it will trap the plug and deter removal.

A bottom side view of the plug shows the notch built into the plug itself (*see photograph 11*). Since the control key has a notch in the matching position, the retainer is able to slip into the notches when the plug is turned one-quarter turn counter-clockwise. Of course, for ease of service, this can be done while the lock is still installed on the door. What some locksmiths don't realize is that there is an additional notch in the plug and an alternate rotational position for cylinder

removal. This method, however, requires removing the lock from the door first, and removal of the spindle (similar to the service required for the Kwikset model 400 knob lock).

The alternate notch is found on the left side of the plug (*see photograph 12*). It is not in line with the bottom of the key blank, so you don't need to have a control key to rotate the plug to this position. To remove the cylinder, though, you must be able to rotate the plug. Either a key, or picking the lock will be necessary. The retainer won't retract if you can't rotate the plug. For this notch to engage and retract the retainer, the plug must be rotated 180-degrees (or to 6-o'clock on a clock face). The reason you must remove the spindle for this method is that the spindle limits plug rotation (while the lock is fully assembled and/or attached to the door) to a quarter turn in either direction. The cylinder

**Continued on page 50**

# Any Make, Any Model... Always HPC!

Mazda RX8



Switch Stick  
(C0-80)

Kia Amanti



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(C0-60)

Oldsmobile Alero



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Toyota RAV4



Short Double "L"  
(C0-72)

Oldsmobile Bravada



Stretch Double "L"  
(C0-71)

Volkswagen  
Touareg



Stretch Killer™  
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Suzuki  
Forenza



Lasso™  
(C0-73)

Honda  
Element



5 foot  
Super Snare  
(C0-78)

BMW Z4



Fishing Pole  
(C0-83)

Chevrolet  
Aveo



Vertical Clutch™  
(C0-76)

Ford Crown Victoria



Jim Dandy™  
(C0-22)





der can only be removed (while the lock is on the door) with a control key, or by being picked when the plug is turned one quarter counter-clockwise. When you remove the spindle from the lock, you remove all rotation limitations, and allow the plug to turn 180-degrees.

Before I get to competitive keyway cylinders, I'll explain one more thing about following out a plug. The spring-loaded retainer should be treated like the spring-

loaded top pins during plug removal. If you don't allow a gap between the plug and plug follower, the retainer won't drop into the plug opening and it won't block the follower.

If you do allow the retainer to drop into the plug opening during plug removal, it can usually be pushed back outward fairly easily. Then, sliding the plug follower back in will keep the retainer in place.

## Alternative Keyway Cylinders

Kwikset makes alternative keyway lock cylinders that will fit into a number of their lock models, including the model 740 knob lock previously mentioned. One of those cylinder types has a keyway broaching compatible with the Schlage "C" keyway (*see photograph 13*). The control key for this version cylinder is similarly notched (as with the Kwikset keyway control key). The main difference is the keyway and the pin chamber spacing. Turning the control key 90-degrees counter-clockwise allows the retainer to retract, just like the standard Kwikset keyway lock cylinder (*see photograph 14*).

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16. The blade of the 6-pin key will fully insert.



17. A Weiser keyway.



18. A Weiser five pin chamber.

If you look at the Schlage keyway plug you will see there are only five pin chambers, but the keyway is deep enough to accept the 6-pin length key (*see photograph 15*). The blade of the 6-pin key will fully insert technically allowing you to code the plug to that key (*see photograph 16*). The only limitation is that you won't have a chamber number six to place a pin matching the sixth cut. You could, of course, code the plug to the first five cuts on a 6-cut key.

Like with the Kwikset keyway cylinder, you can duplicate the operating key cuts onto the control key blank for cylinder insertion or removal. You do have the additional option of making a notch on the bottom of an operating key or picking the cylinder to retract the retainer. Similarly, you can also disassemble the lock and remove the spindle, which allows you to turn the key 180-degrees for cylinder removal.

The other competitive keyway cylinder has a Weiser key-

way (*see photograph 17*). Like the Schlage version, the cylinder will allow full insertion of a 6-pin length key even though it also has just five pin chambers (*see photograph 18*). With this cylinder, you can key alike to either a 5-pin or 6-pin Weiser or Falcon key. As a side note, Weiser was recently acquired by Kwikset's parent company, along with Baldwin.

After coding the lock cylinder, you will still need the trim

plate/scalp to match the lock's finish (*see photograph 19*). It snaps into place onto the lock cylinder, and the cylinder is then ready to assemble into the lockset (*see photograph 20*).

For more information on Kwikset locks contact: Phone: 800-327-LOCK or 949-672-4000; Fax: 949-672-4001; Web: [www.kwikset.com](http://www.kwikset.com). Circle 324 on Rapid Reply. **INL**



19. The trim plate/scalp.



20. The cylinder is ready to assemble into the lockset.

# 2004

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JUNE 24<sup>TH</sup> - JUNE 27<sup>TH</sup>

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# FOLEY-BELSAW 200 Code / Duplicator KEY MACHINE



by  
**Bob Sieveking**

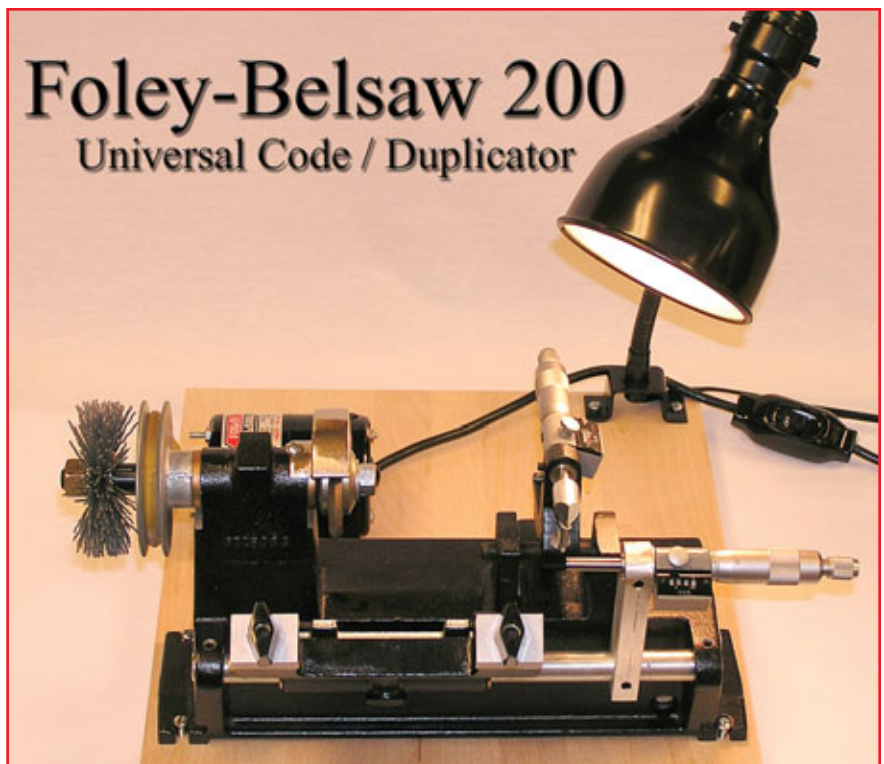
**T**he Foley-Belsaw 200 key machine was designed to be a convenient, accurate and universal means of producing cylinder and flat steel keys for the locksmith (*see photograph 1*). It was also designed as a teaching aid for the Foley-Belsaw Locksmith Course. Proper set-up and use of the Foley-Belsaw machine will teach the new locksmith many important principles that will be used throughout his locksmith career.

I received my first Foley-Belsaw 200 key machine in 1974, after completing the Foley-Belsaw locksmith correspondence course. That was a proud day for me. It made me a real locksmith. I had a real Diploma, certifying me as a professional locksmith, and a micrometer key machine that allowed me to make keys to factory depths.

In my research, I was surprised to find that the Foley-Belsaw machine is, by far, one of the most popular key machines ever made. More Foley-Belsaw model 200 key machines are shipped each

month than most people would imagine. Now, that's quite a statement. You may have a few questions about what makes the Foley-Belsaw so popular. I hope to answer them here.

**Continued on page 54**



**1. The Foley-Belsaw 200 key machine.**



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- Key-blank number cross referencing • Code card production

The first section of the program features a highly comprehensive database of key-blank reference numbers from 34 different manufacturers, 70,000 keys all cross indexed. This section of the program allows you to enter a key-blank reference number from a particular manufacturer and have this instantly converted to be the reference number of the brand of key-blank you use.

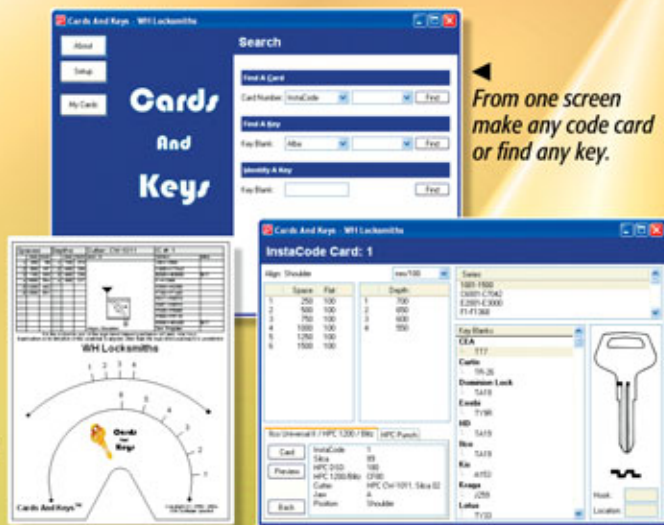
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If you own InstaCode this module is already included.



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▲ Look up 70,000 key blanks from 34 different manufacturers.

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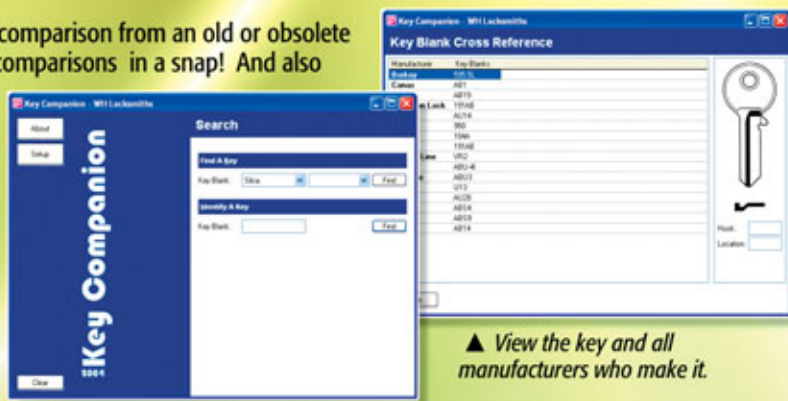
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Key Companion economical, easy to install and works with all versions of Microsoft Windows. Best of all, the program includes not only 70,000 key-blank cross references, but a picture of the blank and profiles as well so you can make sure your search has produced the correct result!

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- How can I cut a key to depth? (Making a key to code)
- How accurate is the machine?

The Foley-Belsaw 200 is designed to duplicate or originate most standard cylinder, flat steel or safe deposit box keys.

I have set this machine up with the new digital micrometers and code cutter wheel and code guide or tracer point. The machine, however, ships with standard micrometers and three sets of cutters and guides. They are; the code guide and file cutter, duplicating guide and file cutter and flat steel guide and milling cutter. The cutters match the profile of the guides (*see photograph 2*). The duplicating and code cutters are file type cutters. It is recommended that you only cut brass keys with these cutters, to prolong their useful life. The flat steel cutter is a milling style cutter. It is designed to cut flat steel and deposit box keys. If you do a lot of locker or flat steel work, you will probably graduate to a carbide flat steel cutter at some time.

The duplicating guide and cutter have a modified profile, which allows cuts to be made close to the shoulder of a key. The code cutter is a full "V" style cutter, designed to mill the leading and trailing ramps of a cut being made to code. Though it was designed specifically for code cutting, the code guide and cutter can be used for duplication. With the tracer micrometer set to zero, it will accurately duplicate cylinder keys for most pin and wafer tumbler locks.

The unique micrometer tracer design, allows the machine to be quickly adjusted to make up for wear in a key or cylinder. If the original key catches in the cylinder, or will not turn without lifting the key in the keyway, the cuts are most probably too deep. By adjusting the tracer micrometer  $+0.005$ ", the duplicate key will have its' cuts made  $.005$ " shallower than the original. In many cases this will solve the catch, caused by a problem key.

If you have a key that binds or drags as it is rotated from the key pull position, and remains tight as it is turned in the cylinder, the cuts are most probably made too shallow. By adjusting the micrometer  $- .005$ ", a duplicate will have its' cuts made  $.005$ " deeper than the original. Many times this will solve a binding key problem.

Automotive lock cylinders that use wafer type tumblers wear. Because of the wear in the tumblers (or key), the key begins to operate poorly. The customer will say, "It only works when I wiggle the key up and down." By adding  $.005$ " to the duplicate, the problem can be solved in a few seconds. In some cases, you may want to add more than  $.005$ " to the key, but be sure to reset the tracer micrometer to "0" before making any other duplicates.

One of the best things to be made available for the Foley-Belsaw machine is the new digital micrometer. Though I began my machinist training in the 1960's, when the vernier caliper and standard micrometer were the norm, I have seen the advent of the dial caliper and now digital caliper and digital micrometer. Locksmiths unfamiliar with the micrometer, until they began using a Foley-Belsaw key machine worked at a disadvantage. The digital micrometer brings the ease of interpreting decimal measurement to the

modern key-making locksmith. There is no need to interpret a scale on the micrometer. The decimal measurement is quickly and easily read in the digital window. Digital micrometers are a real improvement.

The trick to making accurate keys with any key machine is in the set-up and calibration. The Foley-Belsaw machine is designed to be adjustable in both the spacing of the cutter and guide, and in the cut depth. Spacer keys are supplied with the machine, for this purpose. They are used only to calibrate the cutter to tracer point distance. The spacer keys are carefully gauged in the key vises, using the flip-up Key Gauge. Both keys have a "V" groove, exactly the same distance from the shoulder. When the carriage is tipped forward, the cutter and tracer points enter the "V" groove. If the tracer point is not exactly centered in the groove, it means that the cutter to tracer dimension does not agree with the key spacing. The Flip-up key gauge cannot be adjusted, so we must adjust the position of the tracer point. *Photograph 3*, shows a top view of the machine, at the tracer point. You will see that there are two large fine-thread lateral adjusting screws holding the guide arm casting in position. The lateral adjusting screws bear on both sides of the casting, holding it in position. If one is loosened, and the other tightened, the guide arm casting can be moved left or right to adjust the cutter-to-guide dimension. (You will need to slightly loosen the locking cap screw on the guide arm casting to make this adjustment.) As this is the first step in calibrating the machine, we will not be concerned with the depth adjustment at this time. Adjust the spacing to allow the cutter and tracer point to perfectly center on the guide keys.

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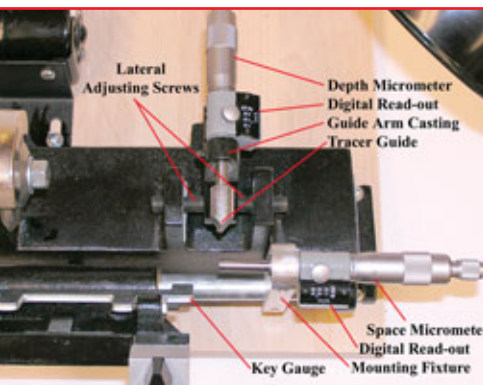
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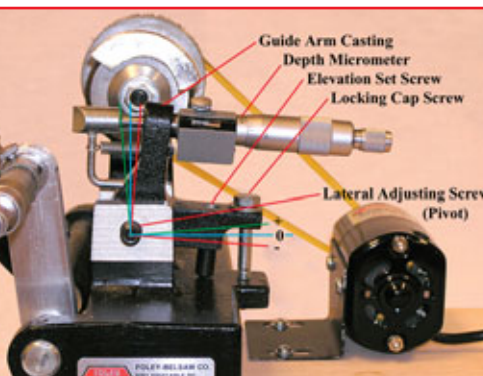




**2. The cutters match the profile of the guides.**



**3. A top view of the machine, at the tracer point.**



**4. The last adjustment to be made is the depth calibration.**

When you are satisfied that the spacing is correct, tighten the lateral adjusting screws and recheck the adjustment. Spacing of the cuts in a key (distance from the shoulder to the center of the cuts) is as critical as the depth of the cut. Accurate keys can only be made on a machine that is properly calibrated.

Installing the digital space attachment is thoroughly explained in the manual that accompanies it. The fixture positions the micrometer at a convenient height, so the tip of the

micrometer contacts the side of the carriage as the key is tipped into position to be cut. Set the space micrometer to 0.000, and snug the locking thumbscrew to prevent the micrometer from moving off the zero setting. Tip the carriage forward to bring the tip of the tracer guide into contact with the guide key, and slide the carriage against the tip of the spacer micrometer (set to 0.000). The center (tip) of the tracer point should be positioned exactly at the edge of shoulder of the guide key. Lightly tighten the setscrew in the mounting fixture, to lock it in place and recheck your adjustment. When you are satisfied with the adjustment, do a final tightening of both setscrews in the mounting fixture and recheck the alignment of the shoulder of the guide key and tracer point. Alignment and calibration of the spacing fixture will determine the accuracy of all your code cut key spacing.

The last adjustment to be made is the depth calibration. *Photograph 4*, shows an end view of the Foley-Belsaw machine. Note that the lateral adjusting screws which we adjusted in a previous step act as a pivot for the guide arm casting. The elevation set screw and locking cap screw oppose one another to position and secure the guide arm casting in position. We loosened the locking cap screw to make lateral adjustment a little easier, in a previous step. Now we will set the depth adjustment.

Set the depth micrometer to "0.000" and snug the locking thumb screw. This will prevent the micrometer from moving off the zero-set position for now. Remove the guide keys from the key vises, and install two identical uncut key blanks. Shoulder-gauge the keys, as you would if you were making a duplicate. Loosen the locking thumb screw on the space micrometer, and

back the micrometer point away to allow the tracer point to contact the uncut key at about the middle of the key blade. We want to calibrate the machine at the center of the key. When properly adjusted, the pattern key will be in contact with the tracer point. Hand rotation of the cutter will cause the cutter to just nick the second key. Flip the belt off the motor, and turn the cutter by rotating the machine pulley.

Raise the carriage to the tracer tip, holding the carriage on the pattern side only. The pattern side is the side of the carriage that would normally hold the original or pattern key.

When duplicating or code cutting a key, always hold the carriage by the pattern side. Keep your eyes on the tracer point and pattern key. Allow the carriage to feed the opposite key into the cutter. Any pressure on the opposite side of the carriage may cause the cuts to be made too deep.

If the pattern key does not touch the tracer point, we will need to tip the guide arm casting toward the key by turning the elevation screw clockwise. As the elevation screw is turned clockwise, the rear of the guide arm casting will be raised (+) and the tracer guide will move forward into the key. (Loosen the locking cap screw as necessary, to allow the tracer guide to move forward to the uncut pattern key.)

If the pattern key touches the tracer point, but the cutter does not contact the opposite key, we will need to tip the guide arm casting away from the pattern key. This will allow the keys to move toward the cutter. Turn the elevation screw counterclockwise, to lower the rear of the guide arm casting and move the tracer guide away from the pattern key. When properly adjusted, the cutter will just nick the

**Continued on page 58**



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Schlage Depth #	Uncut Blank	— Root Depth =	Micrometer Setting
0	.341	.335	.006
1	.341	.320	.021
2	.341	.305	.036
3	.341	.290	.051
4	.341	.275	.066
5	.341	.260	.081
6	.341	.245	.096
7	.341	.230	.111
8	.341	.215	.126
9	.341	.200	.141

**Chart 1. Calculate Micrometer Settings**

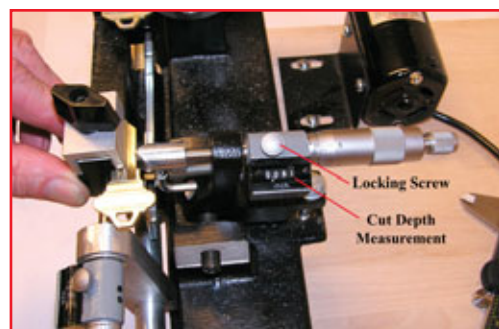
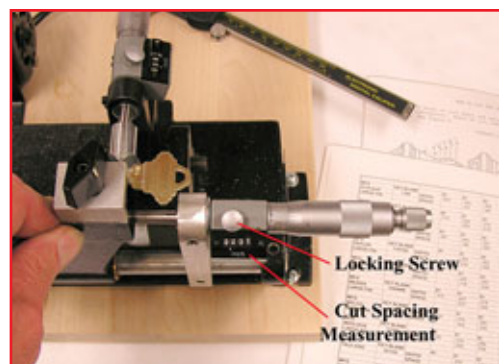
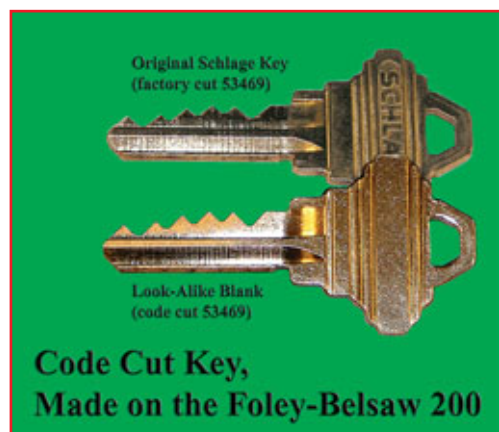
cutter side key. We want the cutter to scratch the surface of the key, but not cut it so much that we catch a fingernail on the mark left by the cutter. When satisfied with the depth adjustment, snug the locking cap screw and recheck the adjustment. The locking cap screw and elevation set screw act against one another to position the guide arm casting. Alternate, tightening each a little at a time, while rechecking the calibration, until you have the guide arm casting locked securely in place. Do a final check of the depth adjustment when you have finished. Insure that the depth micrometer is securely tightened in the guide arm casting.

The depth and spacing adjustments should be checked periodically to insure accurate key cutting. If you purchase a new cutter, recalibrate the machine. Two cutters, even by the same manufacturer, are rarely exactly the same diameter. If you regularly switch between the code cutter and duplicating cutter, the depth calibration should be checked. Use the micrometer to calibrate to the duplicating cutter, and note the difference on the cutter. Use a Sharpie marker to write the offset on the side of the duplicating cutter. That way you will know to set the micrometer  $+.004"$  or  $-.003"$  when using the duplicator (for example). Calibrate to the code cutter using the zero-set position, as this is the cutter you will use to produce keys to dimension (code cut).

The code spacing attachment includes a handy list of 55 of the most popular depth and space settings. For our example, we chose to cut a Schlage key to code, and test it in an original Schlage cylinder with original factory Schlage pins. We used a new original cylinder with factory keys. The code for the key was: 5-3-4-6-9.

Because the Foley-Belsaw machine is zero-set for no cut, we need to find the micrometer setting for the depth that will remove material from the uncut key to bring the root depth to dimension. All depth and space charts will give you the root depths of the cut key. We need to do a little math to find the micrometer setting.

If we measure an uncut Schlage look-alike blank (manufacturer not specified), we find that (for the blanks that I used) it measures  $.341"$  from the back of the blank to the top of the blank. The measurement was taken at the center of the key blade. These blanks consistently measured  $.340"$  at the shoulder and  $.342"$  at the tip. (Not a problem, just an observation.) By subtracting the root depth from the uncut blank dimension, we can find the micrometer setting for the depth micrometer. The table above illustrates the micrometer settings for Schlage depths, using the keys we have. Other manufacturers keys may be slightly different, so measure and calculate your own chart (see Chart 1).

**5. The depth micrometer is set to .081.****6. The center of the first cut from the shoulder is at .231".****7. One of two keys made using the above procedure.**

Because we calibrated our spacing micrometer to zero-set exactly with the shoulder of the key, it is a simple matter to dial in the dimensions: shoulder to center of first cut and cut to cut. All dimensions are taken from the shoulder of the key and read directly on the digital micrometer. Standard spacing for the Schlage 5-pin key place the cut centers at:  $.231$ ,  $.387$ ,  $.543$ ,  $.699$ , and  $.855$ . All cut centers are measured from the shoulder of the key.

Because the Code cutter is a true "V" cutter, there will be no;

flat, or land created automatically by the cutter. It is necessary to dial in the width of the land you want to create, as you make each cut. The land should be .020" to .030" wide, in most cases. If you are widening a cut for a Weiser or Kwikset key, the land should be made .080" wide.

The first cut in our key is a "5" depth. The flip-up key gauge was used to carefully gauge two keys in the key vises. We see from the chart that the micrometer setting for a number five depth should be .081. In *photograph 5*, we have set the depth micrometer to .081.


The center of the first cut from the shoulder is at .231". In *photograph 6*, we have set the spacing micrometer to .231. Note the position of the hand on the carriage. Hold the side of the carriage against the spacing micrometer as you advance the uncut pattern key into the tracer key guide. The cutter will remove .081" of material from the uncut key in the cutter

side of the carriage, creating a cut root depth of .260. Hold the carriage as shown, as you back the spacing micrometer off .015" to  $(.231 - .015 = .216)$  .216. Continue holding the key in contact with the key guide as you advance the spacing micrometer back to .231, then to  $(.231 + .015 = .246)$  .246. By moving the carriage .015 either side of cut center we have created a .30" wide land at the bottom of the cut. Lift the carriage away from the key guide and repeat the depth and space settings appropriate for spaces two through six.


Two keys were made using the above procedure. One of those keys is shown in *photograph 7*. The rear key is the original Schlage key. The front key is the code cut key, made on the Foley-Belsaw 200 machine. Both code cut keys were tried in the Schlage cylinder. Both worked perfectly. Key cuts in both keys were measured using a digital caliper. I found that there was a

$\pm .001$ " tolerance, from the desired root depths. I think that  $\pm .001$ " should be entirely acceptable in most locksmith circles. It may be a little better than some.

As a small footnote, I would like to add that in my earlier years as a locksmith, I had opportunity to install and maintain a Great Grand Master system of six pin Corbin Ring Cylinders. The system encompassed over 400 cylinders in a large hotel. Every key was code cut on a Foley-Belsaw 200 key machine. I didn't have the luxury of the digital micrometers or spacing attachment, but I did have a certificate that certified me as a real locksmith, and a key machine that allowed me to make keys to dimension.

*For more information on Foley-Belsaw products contact: 800-821-3452 or (816) 483-2700; Fax: (816) 483-5010; Web: [www.foley-Belsaw.com](http://www.foley-Belsaw.com). Circle 325 on Rapid Reply.* 

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From the advent of the personal computer nearly twenty years ago, HPC was one of the first companies to create software for code management. The 1986 release of the Workshop program gave locksmiths the first taste of how fast and easy code retrieval could be. In 1996, HPC solidified their position as a leader in locksmith software with the release of CodeSource® the first Windows-based code program.

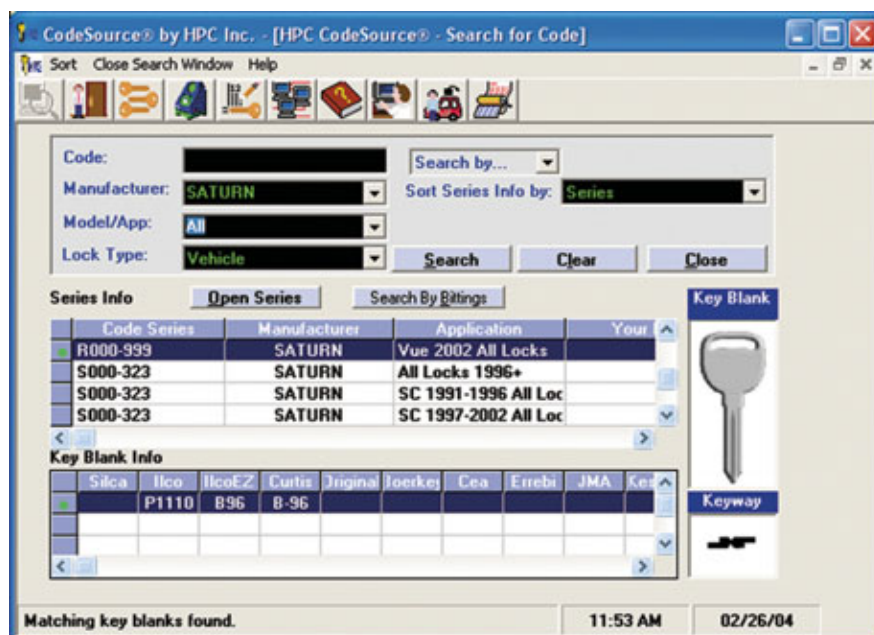
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**CodeSource-Lite:** The latest version of CodeSource continues the tradition of intuitive, informative, and innovative software. It

provides access to millions of codes with a few clicks of your mouse. The windows are clear and concise, providing the key biting, depth and space measurements, and key blank information (see figure 1). Complete key cutting information is provided for HPC's machines. In addition, it allows for searching by partial bittings, a crucial feature when dealing with a broken key or needing to generate an ignition key from the door lock.

**CodeSource-Plus:** The Plus version is one of the most versatile and complete code programs available. It has all of the features of CodeSource-Lite, plus the ability

to print code cards for any key, expanded key blank cross references, enhanced biting searches, and unique customer registration with customized business cards (see figure 2). Now you can register your customers' codes on your computer, and print a business



1. CodeSource-Lite.

card with a unique reference number (that only you can decipher) to keep them coming back to you for new keys, as well as other business. In addition, CodeSource-Plus includes the Interactive Car Opening Authority, providing car opening information for 15 years of vehicles.

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**CodeSource-CE:** Introduced nearly 5 years ago, CodeSource-CE was the first code program available

for a hand-held computer. Designed specifically for the Hewlett Packard Jornada 680, 720, or 728 hand-held computer, CodeSource-CE gives you instant access to millions of codes from HPC's complete code database. The Windows-CE based hand-held computers include CE-versions of Word, Excel, Power Point, and other popular programs. Utilizing a "qwerty" keyboard and offer-

ing a hot-sync to a desktop PC, these computers are a great way to stay connected while on the road. Although it is a scaled-down version of CodeSource, it has many of the same features as the desktop version of CodeSource, including the biting search and key blank cross-reference. The Interactive Car Opening Authority is available separately.

**CodeSource-Palm:** Currently the most popular platform is the Palm® operating system. These devices are available from such companies as Palm and Handspring. These computers are small enough to fit in a shirt pocket. They typically include an address book, calendar, to-do list, and more. Some even have a digital camera or cell phone built-in.

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06 12-20-20	06 20-22-22	06 22-24-24	06 24-26-26	06 26-28-28	06 28-30-30	06 30-32-32	06 32-34-34	06 34-36-36	06 36-38-38	06 38-40-40	06 40-42-42	06 42-44-44	06 44-46-46	06 46-48-48	06 48-50-50	06 50-52-52	06 52-54-54	06 54-56-56	06 56-58-58
07 12-22-22	07 22-24-24	07 24-26-26	07 26-28-28	07 28-30-30	07 30-32-32	07 32-34-34	07 34-36-36	07 36-38-38	07 38-40-40	07 40-42-42	07 42-44-44	07 44-46-46	07 46-48-48	07 48-50-50	07 50-52-52	07 52-54-54	07 54-56-56	07 56-58-58	07 58-60-60
08 12-24-24	08 24-26-26	08 26-28-28	08 28-30-30	08 30-32-32	08 32-34-34	08 34-36-36	08 36-38-38	08 38-40-40	08 40-42-42	08 42-44-44	08 44-46-46	08 46-48-48	08 48-50-50	08 50-52-52	08 52-54-54	08 54-56-56	08 56-58-58	08 58-60-60	08 60-62-62
09 12-26-26	09 26-28-28	09 28-30-30	09 30-32-32	09 32-34-34	09 34-36-36	09 36-38-38	09 38-40-40	09 40-42-42	09 42-44-44	09 44-46-46	09 46-48-48	09 48-50-50	09 50-52-52	09 52-54-54	09 54-56-56	09 56-58-58	09 58-60-60	09 60-62-62	09 62-64-64
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15 12-38-38	15 38-40-40	15 40-42-42	15 42-44-44	15 44-46-46	15 46-48-48	15 48-50-50	15 50-52-52	15 52-54-54	15 54-56-56	15 56-58-58	15 58-60-60	15 60-62-62	15 62-64-64	15 64-66-66	15 66-68-68	15 68-70-70	15 70-72-72	15 72-74-74	15 74-76-76
16 12-40-40	16 40-42-42	16 42-44-44	16 44-46-46	16 46-48-48	16 48-50-50	16 50-52-52	16 52-54-54	16 54-56-56	16 56-58-58	16 58-60-60	16 60-62-62	16 62-64-64	16 64-66-66	16 66-68-68	16 68-70-70	16 70-72-72	16 72-74-74	16 74-76-76	16 76-78-78
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29 12-66-66	29 66-68-68	29 68-70-70	29 70-72-72	29 72-74-74	29 74-76-76	29 76-78-78	29 78-80-80	29 80-82-82	29 82-84-84	29 84-86-86	29 86-88-88	29 88-90-90	29 90-92-92	29 92-94-94	29 94-96-96	29 96-98-98	29 98-100-100	29 100-102-102	29 102-104-104
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33 12-74-74	33 74-76-76	33 76-78-78	33 78-80-80	33 80-82-82	33 82-84-84	33 84-86-86	33 86-88-88	33 88-90-90	33 90-92-92	33 92-94-94	33 94-96-96	33 96-98-98	33 98-100-100	33 100-102-102	33 102-104-104	33 104-106-106	33 106-108-108	33 108-110-110	33 110-112-112
34 12-76-76	34 76-78-78	34 78-80-80	34 80-82-82	34 82-84-84	34 84-86-86	34 86-88-88	34 88-90-90	34 90-92-92	34 92-94-94	34 94-96-96	34 96-98-98	34 98-100-100	34 100-102-102	34 102-104-104	34 104-106-106	34 106-108-108	34 108-110-110	34 110-112-112	34 112-114-114
35 12-78-78	35 78-80-80	35 80-82-82	35 82-84-84	35 84-86-86	35 86-88-88	35 88-90-90	35 90-92-92	35 92-94-94	35 94-96-96	35 96-98-98	35 98-100-100	35 100-102-102	35 102-104-104	35 104-106-106	35 106-108-108	35 108-110-			

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# Installing the

# SCHLAGE

# CM5100

# LOCKSET

by  
**Richard Allen  
Dickey**



Last month I covered the features and options of the Schlage CM5100 electromechanical lockset ([see photo 1](#)). You also got a look inside the lockset to see where the electronics are located and how the engagement pin for the outside lever is activated.

This month I will go through the very simple process of installing the CM5100 series. I say simple, because I installed both locksets (south and west doors) in less than thirty minutes.

I will also touch briefly on the programming process. The CM5196 is programmed with the same software and in the same way as the CT1000. I covered programming the CT1000 in the past that came out in January of this year. Now on with the installation.

Both exterior shop doors where this lock was to be installed are hollow metal doors, in metal frames. They currently had Yale leversets installed ([see photo 2](#)). After removing the leverset, three extra holes need to be drilled.

To make this a simple task, a very good template is included ([see photo 3](#)). The template is designed to be used, only on the inside (secured side) of the door.

There is a low edge and a high edge line on the template. The difference between the high and low



**1. This is the Schlage CM5196 electromechanical lockset that will be installed on both shop doors.**



**2. The CM5196 will be replacing Yale leversets.**

edge is  $\frac{1}{8}$ ". The high and low edge creates a bevel on the edge of the door and allows it to have a closer tolerance than if the door had a square edge.

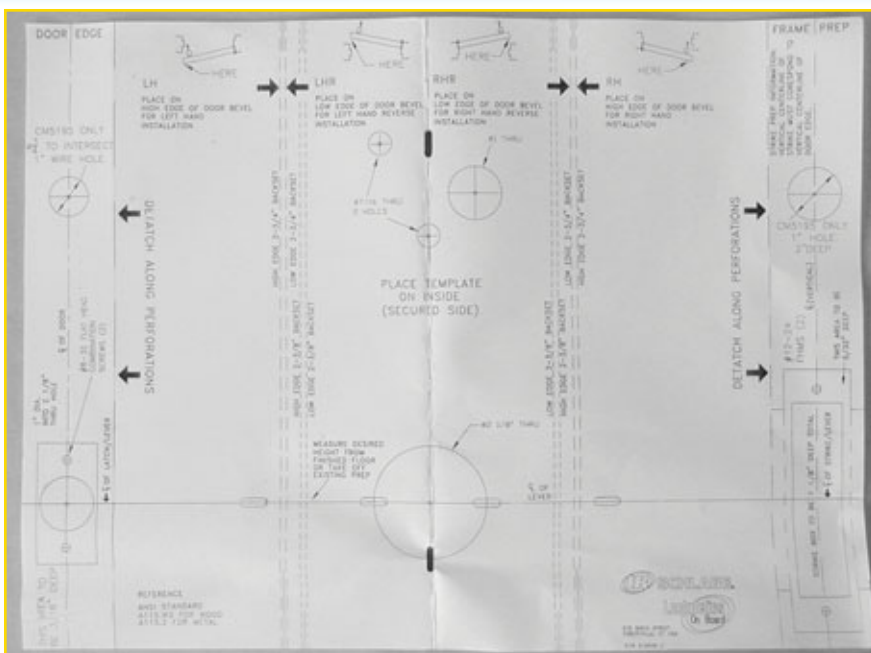
The high edge on the door will be on the inside if the door opens inward, and on the outside if the door opens outward. An outward opening door is referred to as "reverse".

The larger of the three holes is 1" and used to pass wiring. A 1" hole saw will take care of this one ([see photo 4](#)). The two smaller holes are  $\frac{7}{16}$ " and used for mounting studs that pass through the door ([see photo 5](#)).

Before the outside assembly can be installed, three things need to happen. The first is that the weather gasket should be installed ([see photo 6](#)). One side of the gasket has adhesive backing and makes this part simple.

Second is the installation of the mounting studs ([see photo 7](#)). They simply screw into place. The third requirement is the removal of the latch guard. What's a latch guard? Well, the latch guard is a plate that prevents the latch from sliding out of engagement with the retractor assembly, after everything is installed ([see photo 8](#)).

The latch guard is held in place with one screw and must be removed during installation ([see photo 9](#)). When the outside assembly is slid into place and the latch is properly



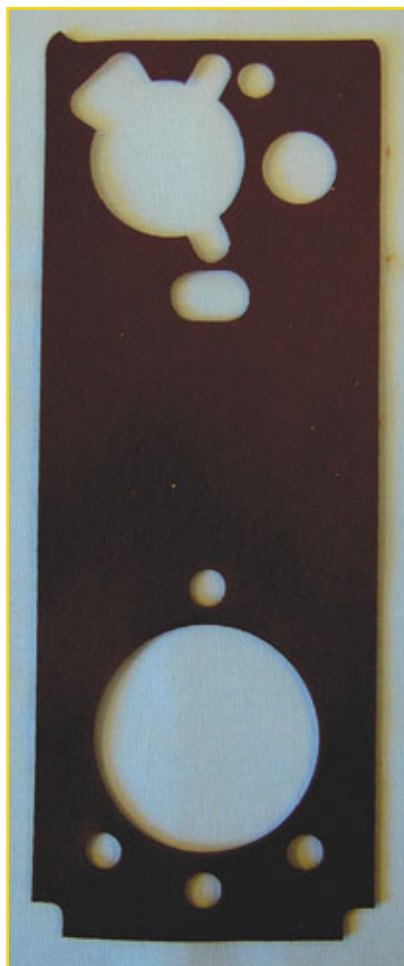
**3. A very good template is provided to assist in locating three additional holes that need to be drilled.**



**4. The larger hole is 1" and is easy work for a hole saw.**



**5. After the two additional 7/16" holes are drilled, the latch can be installed.**



**6. The outside assembly should have a weather gasket installed.**

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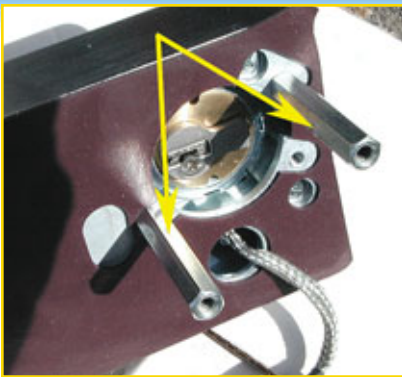
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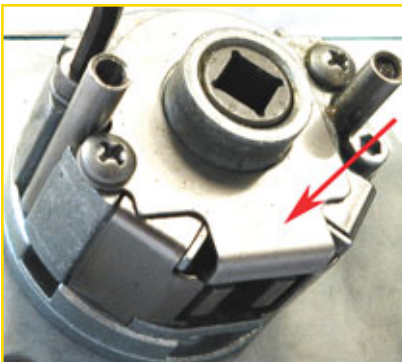
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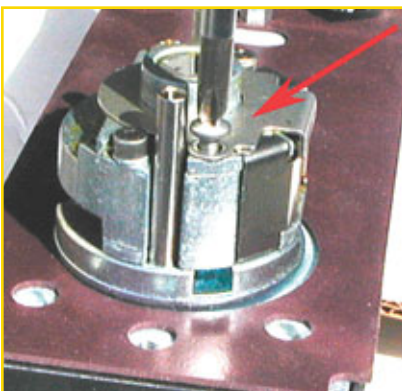




**7. Two standoffs have to be attached to the outside assembly.**



**8. The latch guard has to be removed before installation can continue.**



**9. The latch guard is held in place with one screw.**



**10. After the latch and retractor are mated properly, the latch guard can be reinstalled.**

engaged with the retractor, the latch guard is reinstalled ([see photo 10](#)).

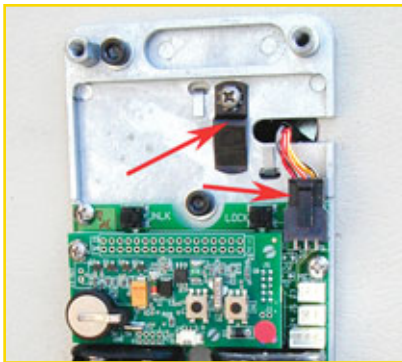
Now is a good time to slide the inside spindle into place before it is overlooked ([see photo 11](#)).



**11. The inside spindle should be installed at this time so it is not forgotten.**



**12. The inside assembly is held in place with four screws.**



**13. The cable from the outside assembly is plugged into the electronic circuit card.**

The next step is to attach the inside assembly. It is held in place with four screws ([see photo 12](#)). The inside assembly houses most of the good stuff. This includes the electronic circuit board and batteries as well as

all of the electrical connections.

The main wiring connection from the outside assembly attaches to the top of the electronic circuit board ([see photo 13](#)). A cable clamp is provided, however I chose not to use it.

In my case, the wiring connector received less strain if I simply pushed the excess back into the large 1" hole. This wiring will not be flexed, nor will it suffer from long-term vibration. I also checked to make sure there are no sharp edges that could cause damage.

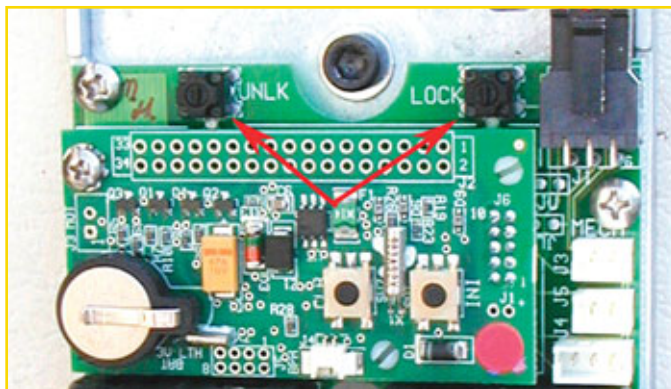
After the batteries are installed it is time to do a couple of basic tests to make sure the lock works properly before putting the inside cover in place.

There are two buttons at the top of the circuit board ([see photo 14](#)). They are to test the lock and unlock function of the lockset. When you press the unlock button, you will hear the whir of the motor and the outside lever will retract the bolt. When the lock button is pressed, you will hear another whir and the outside lever will be disengaged.

Two more buttons located more to the center of the board are clear "CLR" and initialize "INI" ([see photo 15](#)). The clear button will remove all user data and restore factory defaults. The initialize button is used to create a programming credential.

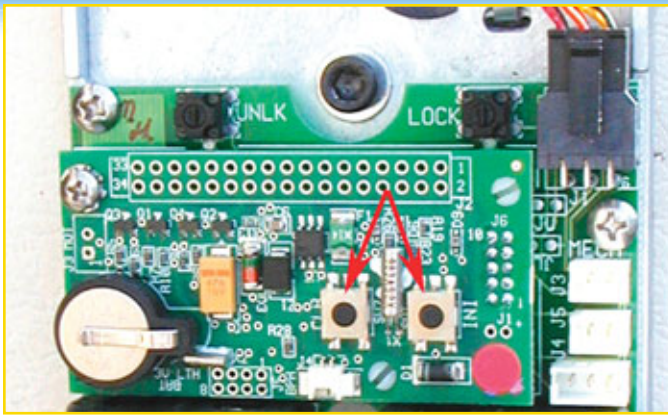
After testing the basic lock and unlock function, the inside escutcheon (cover) can be installed with four screws ([see photo 16](#)). Standard screws are provided as well as anti-tamper screws. The only thing left to do is program the lock.

Earlier when the CT1000 was installed to control the front door, LockLink Express III was used to create users and assign schedules for

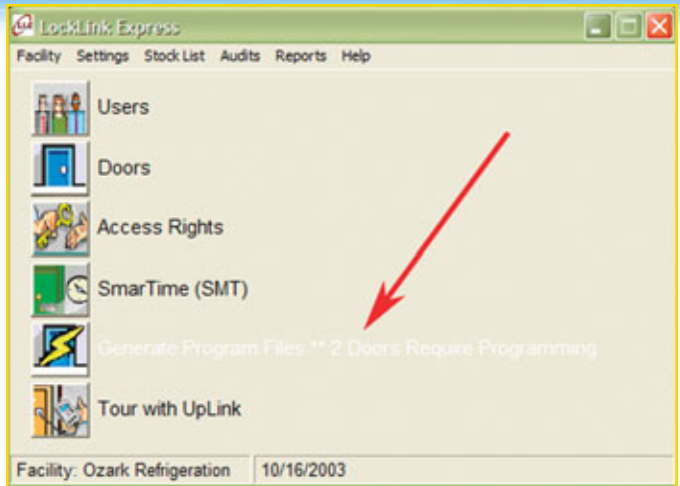


**14. A lock test button and an unlock test button are provided on the circuit card.**





**15. A button for initializing and another for clearing are located in the center section of the circuit card.**



**17. The programming software keeps track of which doors have been programmed and which ones still need programming.**



**16. The inside cover can be installed with standard screws of anti-tamper screws. Both are provided.**

all three doors. After the front door was programmed, there were still two doors that needed programming (see photo 17). The software keeps track of things like this so you don't have to.

The Pocket PC is a wonderful tool to interface between the desktop computer and the locksets. The Pocket PC is connected to the lockset through a special adapter (see photo 18). By accessing the programming function of the lockset, all information

specific to that lock is loaded into the locks memory and is ready to use.

At the time of programming, the Pocket PC is also capable of retrieving audit information. Audit information as well as the success of the lock programming is updated in LockLink Express III as soon as the Pocket PC is reconnected to the desktop computer.

The owner is very happy with the new system. Audit information is available at any time. Lost keys will never be a problem again. A lost credential can be disabled in only minutes. It makes me feel good to be part of a solution like this one.

For more information on any of the above products contact: Ingersoll-Rand at IR Security & Safety, 111 Congressional Blvd., Suite 200, Carmel, IN 46032.



**18. The CM5196 can be programmed with a Pocket PC that acts as an interface between the desktop computer and the lockset.**

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# Safe Cabinet Double Door Safe



by Dale W. Libby, CMS

**A**lmost more interesting than working on old safes is where you find them. Usually is the worst place possible under bizarre conditions in strange accommodations and in dire conditions. Nobody ever throws out an ancient safe. There must be some mystic traditions that make aged and elderly safes more valuable and secure the older they get in the eyes of a customer. We went and met an old nemesis.

This Safe Cabinet Safe was an old acquaintance. I used to cut my teeth on these large sheet metal safe containers. Over the phone the customer stated that he had a large double door “Yale” safe with a dial lock. Rather than waste time and do a double service call to scope out the safe in advance, Bob Sieveking and I loaded up our equipment ready to do battle with every double door safe that used a Yale Lock. This could have been anything from a monster Mosler unit to a Safe Cabinet unit.

There are several give away features to a Safe Cabinet. Usually there is a logo on the door with the Parthenon in the background. On this unit there were no names. There are flat type butt hinges on both doors. (See photograph 1.) Each door had a “T” handle to control the lock bolts. Left door

handle turns counter-clockwise and the right or primary door handle turns clockwise. The Yale 100 number dial is to the right of this handle. Turning the dial slowly and feeling for contact points made this a Yale OC-5 Friction

type combination lock. There is only one contact point discernable; that was the right contact point, which is felt by turning the dial to the left. On these type locks you must manipulate by using only one contact point.

Putting pressure on the handle while turning the dial had no consequence or effect to the turning of the dial. The OC-5 has a certain feel to it unlike most other combination locks of yesteryear. Both Bob and I have manipulated these units open under ideal conditions. Did I mention that this locked safe was located in a dark, freezing, collapsing barn in the middle of nowhere? The temperature was about 19 degrees with a low single digit wind chill.



1. Typical safe cabinet double door with “T” bolt handles and a friction roller bolt Yale OC-5 combination Lock.

Bob pulled out a Magnetic template of the OC-5 lock from Lockmasters and placed it above the lock. (See photograph 2.) The brother of the deceased lived on a nearby farm and wanted the safe opened to find “important” papers, which he did in fact accomplish.

There is only one good way to open this safe by drilling on this particular lock. Drill in above the lock case and put a hole in the front of the case and use a scope to read the gates in the wheels. There are three wheels and one geared drive wheel. It was now getting colder and darker. We had one lamp and one long extension cord in this dank room. The brush applied beige paint is peeling off

by Dale W. Libby, CMS

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Continued from page 68



2. Magnetic template of Yale OC-5. Only right contact point can be felt.

this safe door due to the many chemicals stored in the room. Down, dirty, and fast.

Photograph 3, shows the hole drilled at the top of the dial ring. Usually these locks are close to the front of the door so a sharp angle of the drill bit is needed. We used about a 45-degree angle once we were through the outside of the door. There was a medium hardplate that drilled with a StrongArm drill bit without a drill rig. The first hole was perfect for reading with a straight Hawkeye scope. It was easy to read all the wheels along the top edges, looking for glints of the hand change brass wheels. After



3. Drilling outside the dial ring at 12:00 o'clock.

determining the relative combination, Bob made a mark 15 numbers to the left of the opening index and I dialed our relative combination and it opened on the first time. We were both amazed. Total time for the opening was 10-minutes. We were in the

groove and in a hurry.

There are other places to drill to avail the hardplate, but there is a lot of bad stuff to put up with. Once my long time friend Little Tommy tried drilling from the hinge side of another Safe Cabinet safe to preserve the door paint. What a disaster.

His side hole was perfect, but when he tried drilling into the right side of the safe lock, he hit the relocker mechanism and messed up the wheels. Side drilling was out. Chancy at best with these safes.

Most safe cabinets are fire safes, six feet tall, 6 feet wide, and three feet

deep. My theory on safe opening is to attack the lock. The outside of any safe, or the name is only necessary when dealing with relockers or special lock configuration. Safe opening is pretty automatic these days. Do the lock and the safe will follow.

The inside of the safe is partially shown in photograph 4. The access panel to the lock is located about 2" below the barely seen Safe Cabinet Logo in the center of the door. The plate was held on the door by paint and painted access screws. Once the screw slots were scrapped clean, the 4 screws were removed. A block of insulation that



4. Inside the Safe Cabinet. Access panel screws have been painted over.

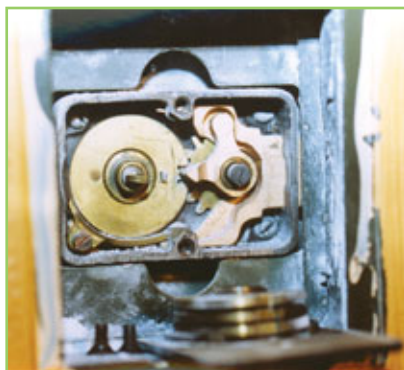
covered the lock case under the access panel was removed to expose the lock case. (See photograph 5.)

The back case was held on to the lock with two slotted head screws. The lock itself was held on to the safe door with four slot head screws. Phillips screws are a new innovation apparently. The lock itself fits into a cavity with little room to spare. The footprint of the OC-5 is different that standard Group II Locks. Retrofitting a new lock in this custom metal cavity would prove to be very expensive and not cost friendly if possible at all.



5. Back view of OC-5 lock in custom cut out panel. Unique footprint/no retrofits.

Here is my trophy shot in *photograph 6*. The roller bolt gear can be seen under the lever. There is a matching larger gear under the drive wheel. Turning the dial to the left causes the roller fence to rotate and withdraw the combination lock bolt. There



6. Classic shot of lock. Three Combination hand change wheels are attached to the back cover.

are three hand change wheels attached to the cover. Remove the clip and the wheels can be removed, cleaned, and the wheels reattached.

Also the relocker can be almost seen in the bottom left part of this lock. It is a "Y" shaped spring loaded piece of metal. If the lock and wheels are punched, this spring lever will

move so that the bottom of the lever at the bottom of the lockcase blocks the movement of the lock bolt. The screw holding the unit in position can be seen in the bottom left corner of the lock case.

It was good to drill outside the dial ring again. Inside the safe was a huge filing drawer system with many drawers and doors. The brother was eager to see what mysteries that his bother had left. I was just glad to get back into the truck with some heat. Parts for these locks are almost impossible to get, so if repair is needed, much care must be shown when drilling into the lockcase. The gears are susceptible to drill damage, so drill carefully, use a good scope, and prosper.

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# Beginner's Corner



By Ken Holmlund

## Making Ford Tryout Keys

Since the 1984 1/2 models have been on the road, Ford has produced millions of vehicles using the 10-wafer system. By far the most common arrangement was the six wafers in the door and six wafers in the ignition. Ford used a sidebar lock in the ignition, but did not use it in the door or trunk lock.

With this huge number of vehicles on the road, you will be making keys for them fairly regularly if you do automotive work. Last month I talked about making keys for the door locks on these vehicles. This month I will show a fast method for making keys for the ignition lock from information acquired from the door lock. This method involves using tryout keys. (See *photograph 1.*)



**1. Tryout Keys.**

There are two ways to achieve tryout keys. One is to buy the keys from reputable sources, and the other is to cut them yourself. If you choose to buy them, both Baxter and Aero make quality tryout sets. The Baxter set that would be needed for this vehicle is set 64A or 64B. The full set for the door and ignition is found in set 102. Plan on spending \$175 to \$180 for the ignition set and the full set will sell for around \$270. The Aero numbers for the same sets are TO-3 for the ignition and TO-40 for the doors.

The tryout keys you will get from either company will be what are

referred to as 1/2 cut keys. The fact that all locks have tolerance differences and over time and use will increase, you will find that usually if you are within 1/2 of a depth needed, the key will turn the lock. Using this as a starting point, we can assume that a set of tryout keys will work using the following parameters: 1-1/2 will work for 1 and 2 cuts, 3-1/2 will work for 3 and 4 cuts and of course 5 will work for 5 cuts.

The method will involve three steps.

1. Determine the cuts of the door key and establish the first two cuts for the ignition from that. This was covered last month.

2. Take the tryout keys you have made that will work the codes using the overlapping two cuts as the base. I will list the groupings later.

3. Insert the tryout keys until you find the one that will work the ignition the best. You may find more than one tryout key that will turn the ignition due to the reasons I have previously stated. If you plan on taking the ignition out of the column and making a key from the torn down plug, any key that will turn the ignition will allow you to get to the next step in that process. If you are going to use the computer to help determine the cuts of the key, as exact a match as possible is helpful.

Since Ford uses a convenience key that requires the correct cuts be only on one side of the key, two tryout combinations are cut on each blank, thus reducing the number of blanks needed to do the job.

What if you want to make the keys yourself? Making the keys will take a considerable amount of time, but the time and frustration saved in the field will more than makeup for

the time spent cutting the keys. Besides, you will only have to cut the keys once, but they will last for years. You decide if it is worth it or not. It sure was to me. I estimate that it will take you about one minute per side to cut, clean, and mark the keys. Your actual time may vary, but you should be able to get the keys cut in about 3-1/2 hours.

I suggest marking each key as you cut it as in *photograph 2.* Knowing which keys you have already cut can get confusing and if they are not marked it would be darn near impossible. Mark the keys using the prefixes I use and you will have no trouble keeping track of them later.



**2. Mark each key as you cut it.**

The following groups are organized according to the two overlapping cuts you have already determined from the door lock, i.e. group 1 will work for overlapping cuts 11, 12, 21, 22, etc. This is the reason I told you last month to write down the cuts as you establish them in the door lock. If you see a 1, 2, 3, 4, or 5 cut that depth. If a 0 appears, cut a 1-1/2 depth and a T means to cut a 3-1/2 cut (0 for one and T for three to make it easy to follow). If the overlapping cuts you determined from the door lock are 11, 12, 21 or 22, you will use the tryout keys from Group 1. Group 2 will work for 13, 23, 24, etc.

If you were to put the information into a computer and ask it to give you a complete listing of all the possible progressions that could be determined using the six cuts and the

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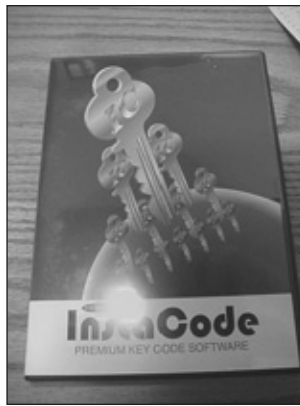
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parameters set by Ford, you would have a list at least five times this long. Fortunately, Ford did not use all the possibilities, so the list is shorter and they can be cut on 102 blanks.

When you go to making the actual working keys from the tryout keys, you will have a couple of options to consider. You can take the lock out of the column and take it apart and make the key from the numbers on the wafers or if you have software, like InstaCode 2004 from *The National Locksmith*, you can put the known cuts into the computer and it will give you a tree that will enable you to find the correct cuts with the fewest possible blanks. (See photograph 3.) Remember, you are just progressing the last four cuts because you already know the first six cuts from the door lock. This method may take a little longer to get the key, but it will give you a good working key.

You will also find several tryout keys that have an exact cut for one or more of the spaces. By putting this information into the computer you



**3. InstaCode 2004 from The National Locksmith.**

will get far fewer possibilities to work with when cutting the working key. If you find a tryout key that has all six cuts listed as numbers, just copy that key because it is the only possibility that matches Ford's used codes.

Of course there are other methods to make keys for Ford 10-wafer ignitions including the drill and pick method, and the destroy and replace method. My intention here is to give you the information needed for you to make your own tryout keys. I have been using the set I made for many years and have

yet to find a vehicle with Ford original ignitions that I cannot get to turn with the keys I have listed here.

If you choose to order tryout keys already cut, or a code software program contact:

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Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
11, 12, 21, 22	13, 23, 24	31, 32, 42	33, 34, 43, 44	35, 45,	53, 54	55
A1-OOT5TT A2-OOTTTT A3-OOTT5T A4-OOTTTT A5-OOTTTT A6-OOT5TO A7-OOTTOO A8-OOTOTT A9-OOOT5T A10-OOOTTT A11-OOTTOT A12-OOTOT5 A13-OOOOTT A14-OOOOOT A15-OOOTOT A16-OOOT5T A17-OOTT55 A18-OOTOTO A19-OOOTTO A20-OOOTOT A21-OOOTOO A22-OOOOT5 A23-OOOOTO A24-OOOTOO A25-OOOT55 A26-224553	B1-OTT5TT B2-OTTT5T B3-OT5TTO B4-OT5TOO B5-OTT5TO B6-OTTTTO B7-OTTTTO B8-OT5TTT B9-OTTOOT B10-OTTTOO B11-OTOT5T B12-OTOOT5 B13-OT5TOT B14-OTTTT5 B15-OTTTOT B16-OTTOTO B17-OTOOOT B18-OT55TT B19-OTOTT5 B20-OTTT55 B21-OTTTTT B22-OTTOTT B23-OTOOTT B24-OTOOTO B25-OTOOOO B26-OT55TO B27-OTT5T5 B28-OTOTTT B29-OTOTTO B30-OTOTOT B31-OTOTOO B32-OT55T5 B33-OT5T5T B34-OT5TT5 B35-OTTOT5 B36-OT5T55 B37-235553 B38-132455	C1-TOT5TT C2-TOOOOT C3-TOTT5T C4-TOTTTO C5-TOOTT5 C6-TOOOT5 C7-TOOOTT C8-TOTTTO C9-TOTOOO C10-TOOTT5 C11-TOOTTO C12-TOOTTO C13-TOOOOO C14-TOT5TO C15-TOTTTT C16-TOOTTT C17-TOTTT5 C18-TOTTOT C19-TOTOTO C20-TOTTOT C21-TOOOTO C22-TOTT55 C23-TOTOTT C24-TOTOOT C25-TOT5T5 C26-TOTOT5 C27-312455	D1-TT5TOO D2-TT5TTO D3-TTOOOT D4-TTOOOO D5-TT5TOT D6-TTOT5T D7-TTTTTO D8-TTTOOO D9-TTOTTT D10-TTOTOO D11-TTOOT5 D12-TTOOTT D13-TTT5TO D14-TTTOOT D15-TT55TO D16-TTTTTO D17-TTTTOT D18-TTOOOT D19-TTOTOT D20-TTTOTO D21-TTOTTO D22-TTTOT5 D23-TTTOTT D24-TTOTTT D25-TTTTT5 D26-TT55TT D27-TT5T5T D28-TT5TTT D29-TTT55T D30-TTT5TT D31-445553 D32-345355 D33-335335 D34-334535 D35-443353	E1-T5TTTO E2-T5TTTO E3-T5TOTT E4-T5TTOT E5-T5TOOT E6-T5TOOO E7-T5TOTO E8-T5T5TO E9-T5TT5T E10-T5TOT5 E11-T555TT E12-T5TTT5 E13-T5TTTT E14-355532 E15-455353 E16-355435 E17-455334 E18-355342 E19-355424 E20-353553 E21-354545 E22-354534 E23-454355	F1-5TTTTO F2-5TTTOT F3-5TTOTT F4-5TTTOT F5-5TTOOT F6-5TTOOO F7-5TTOTO F8-5TTOOT F9-5TOOOO F10-5TOTOT F11-5TTOTO F12-5TOTTO F13-5TTOTT F14-5T5TTO F15-5T5TOO F16-5TT5TO F17-5TOTTT F18-5TOTOT F19-5T5TOT F20-5TTOT5 F21-5TOTT5 F22-5TOOT5 F23-5T55TO F24-5T5T5T F25-5T5TTT F26-5TT5TT F27-5TTT5T F28-5TTTT5 F29-5TTTTT F30-5TOOT5T F31-535534 F32-535455 F33-545335 F34-534553 F35-543355 F36-532355	G1-55TTTT G2-554553 G3-553545 G4-553543 G5-553532 G6-553454 G7-553435 G8-553235



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# The Lighter Side

## Why Locks and Keys? Part 2



by Sara Probasco

**G**et a mean, junk-yard dog,” was the most frequent answer given in a recent survey about the best way to protect your property.

However, as simple and obvious as this idea seems, it does have its down side. For starters, recent court reports show judges and juries to be less than sympathetic toward dog owners whose pets attack intruders. In the second place, such a dog is sometimes not very particular about who he chooses to bite. Maybe he'll choose the once-a-week yardman or one of the grandchildren, or maybe even you. Needless to say, this can result in an emergency trip to the hospital or one of those “I need to speak to the owner” visits from an attorney.

If the sound of a dog barking says “security” to you or your customer, you may want to consider obtaining a recording of a vicious-sounding dog, instead of dealing with the real thing. I understand there's an alarm system on the market that responds to sound and/or motion by triggering just such a recording, hoping the perpetrator will be frightened away by the barking sounds.

We knew of one man who took this concept to a different dimension. He bought a lion. Leo was a toothless old thing, a retiree from a traveling circus. “Harmless” the man was told, so he loaded him into the back of his pick-up and brought him to his remote country home. There he released Leo into the large back yard, which was enclosed by a seven-foot-high stone and

cedar-post wall. On the outside he posted “no trespassing” and “warning” signs every few feet. That way, he figured, Leo would have plenty of room to stretch, while his very presence would discourage interlopers.

Wrong!

It didn't take long for word to get around that there was a nutty guy living a few miles out in the brush who had a man-eating lion for a pet. Of course, that led to some of the area youth daring one another to test their courage by climbing over the wall and confronting Leo.

Before long, the usually docile feline took offense at being tormented by strangers who poked and prodded him, threw stones at him and otherwise harassed him. He retaliated in the only way a lion knows to retaliate. This ultimate “attack cat” mauled a couple of the boys, as best he could, and sent them packing.

Bruised and scratched (more from their hasty retreat over the wall than from Leo), the boys were forced to explain and gave a highly embellished account of what they'd been up to.

Their parents wasted no time in filing a lawsuit against Leo's owner for harboring a wild animal in proximity to a populated area. They won. The lion was destroyed and his owner was forced to pay a ridiculously high price for physical and emotional “damages” incurred by the boys. Obviously, it doesn't take a rocket scientist to figure that almost any kind of traditional security system

would have been more cost effective than the Leo factor.

People get all sorts of crazy ideas about ways to protect their possessions. Most of us are familiar with the use of trained guard dogs, but did you hear about the guy who would turn a dozen rattlesnakes loose in his store every night when he locked up? (I always wondered who rounded them up, in the morning.) Or the “pet” crocodile another fellow kept at his place?

Parrots can be taught to respond to strangers by making ear-piercing sounds. I even heard of one who could perfectly imitate the sound of approaching police sirens. That scared off a criminal or two. I guess we all know the online joke about the burglar who broke into a house and was confronted by a voice in the dark saying, “I see you. And Jesus sees you.” When the burglar saw it was a parrot talking, he ignored him. The parrot repeated himself a time or two, then said, “Sic 'im, Jesus,” to the Doberman lying quietly in the shadows near the door.

Sometimes, locks and keys aren't enough. They must be used—and placed—wisely. Several years ago, a realtor called saying she'd lost the key to a house she was trying to show. She asked if we could come right over and make her a new one. When Don got there, the front door stood open.

“I thought you said you'd lost your key and couldn't get in,” he said to the realtor.

“No. I said I'd lost the key, but I didn't say I was having trouble getting in.”

"How's that?"

"I just call one of the kids playing down the block, and they can get me in. They just reach in through the mail slot and turn the latch on the deadbolt. The problem is, without a key, I have to call them the come back and re-lock it, the same way. Sometimes the prospect is still there when I need to leave, and that doesn't look so good, you know?"

"I couldn't believe what I was hearing," Don told me.

"Well, I hope you gave her a lecture on security and her liability," I said.

"I did, but I might as well have been talking to a tree, for all the good it did. I even asked her what was to keep the kids from going inside on their own and taking something or vandalizing the place."

"And she said...?"

"Those sweet kids wouldn't do anything like that."

"Maybe you should keep an eye out and when that house sells, recommend to the new owner that they either remove the mail slot or install a double-cylinder deadbolt in that door," I suggested.

"Sort of reminds me of the folks over on Smart Street that had good locks on their door and then decided to install a pet-door so their dog could come and go without their having to let him in and out."

"Was that where a burglar squeezed in through the pet-door and robbed them blind?"

"Right. The funny thing about it was, they kept telling the police it had to be somebody with a key or the ability to pick locks. It never occurred to them that a person could get into the house the same way their dog did."

"I guess that just proves what Ted used to say about stupidity."

"What's that?"

"That it's too bad there's not a school for it." **TNL**

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## Pocket InstaCode

Item #PCODE-03

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Pocket InstaCode requires a Pocket PC with 64mb RAM running Microsoft Pocket PC2000 or later. Not included.



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Item #PM-5 • \$1895.00

ProMaster 5 is a total master-key system management tool. You and your clients deserve the best. ProMaster 5 is without a doubt the most comprehensive and easy to use master-key system management tool available anywhere in the world. ProMaster 5 is powerful, versatile and robust, and has been designed to meet the requirements of lock manufacturers and professional locksmiths world-wide.

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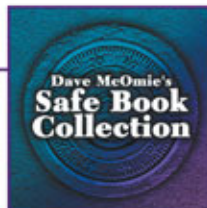
## Dave McOmie Safe Book Collection on CD

Item #DMCD-1 • \$899.00

This CD contains every book Dave has ever published. It contains over 2,300 pages, an Easy Index, safe/vault opening instructions, and about 6,000 photos.

(NSO members call for special pricing)

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## The National Locksmith® on CD

Item #TNL-CD2 • \$99.00 (1988-2002)

Item #TNL-CD4 • \$25.00 (2002)

An eight CD-ROM set. Contains 15 years (1988-2002) of the Locksmith's favorite magazine. Over 14,500 pages of indexed and searchable articles complete with photos. Use the index to locate any topic you want to read about. You'll get cool locksmith internet links allowing you to visit important sites with a single click. If you already own 1988-2001 Back Issues on CD then order the 2002 CD to update your Back Issue collection for only \$25.



## Dave McOmie NSO & Article Collection on CD

Item #DMCD-2 • \$699.00

Includes: • Every NSO National Safeman newsletter since it began in 1992. Each newsletter features detailed safe and vault opening photos, drill points and procedures on a wide variety of safes from the normal to the very high security; • Every McOmie File published by the NSO which gives you all the known opening methods on virtually every important safe lock made, mechanical and electronic, with X-ray views; • Every article Dave has written for The National Locksmith from when he started in 1986 right up to 2000. (NSO members call for special pricing)



## AutoEdge on CD

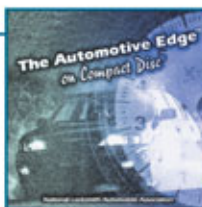
(Automotive Locksmith Software)

Item #AE-CD • \$125.00

This CD contains over 1,000 pages of automotive locksmith service. Techniques covered include code locations, lock and column disassembly, lockouts, and much more.

Shows you how to service domestic, foreign, and even high security vehicles with ease. All known key blanks are given, as are all details you would need to work on the vehicle.

As a special bonus, when you purchase the AutoEdge on CD-ROM, you'll also be enrolled FREE in the National Locksmith Automobile Association (NLAA). You will receive 12 monthly newsletters over the course of the next year. Each one covers an important vehicle from top to bottom.



## 15 Minute Safe Opening Technique

CD VERSION Item #JJ-CD1 • \$99.00

PRINT VERSION Item #JJ-1 • \$99.00

This book deals exclusively with round head lift out doors. Shows five ways to open a Major; three ways to find the Dog Pin on a Major; four ways to open a Star; four ways to open a LaGuard style round door. Also covered are: Bolt shear, side punching, drilling false gates, finding Dog Pins, 'blowing bolts' and drilling perfect scope holes. It's all here. All in one book. More ways to open more lift out doors than you ever thought possible. Over 100 specific photographs. Fifty clear illustrations. Dozens of specific drill points and a special and a special drill point locator, over 140 pages. Available in two formats, book or CD-ROM. Included are drill points for Diebold, Migh-T-Safe, Kingdom, Sentry, In-A-Floor and other round heads. Page after page, illustration after illustration — all designed to help make you money.





## 1 Cores: Small Format

**CD VERSION Item #ICSF-CD1 • \$55.00**

**PRINT VERSION Item #ICSF-1 • \$55.00**

**CD COMBO Item #CORES-CD • \$99.00**

**PRINT COMBO Item #CORES-2 • \$99.00**

Everything you ever need to know about how to sell, service, install and troubleshoot interchangeable cores!

Chapters include: terminology, blanks, tools, removing cores from stubborn shells, decoding cores, pinning, record keeping, installing, planning a system, masterkeying, billing and pricing tips for success. You'll even receive a final exam to help and test your knowledge! This volume contains over 140 pages of priceless information, designed to make IC core work quick, easy and profitable! Available in two formats, book or CD-ROM.



## Removable Cores: Large Format

**CD VERSION Item #RCLF-CD1 • \$55.00**

**PRINT VERSION Item #RCLF-1 • \$55.00**

**CD COMBO Item #CORES-CD • \$99.00**

**PRINT COMBO Item #CORES-2 • \$99.00**

"Removable Cores: Large Format" is packed with exploded views, photos, line art and various graphics, which will blow you away! Why worry about Sargent, Kaba, Schlage, CorbinRusswin, Medeco or Yale again? Get this book and have an up-to-date resource at your fingertips.

Within its covers are a multitude of pictures, charts, drawings, exploded views, diagrams, line art, clipart, comments, etc. that will aid the reader in understanding and in solving individual RC problems on your job site.



## The National Locksmith Guide to Motorcycles Volumes 1, 2 & 3

**Vol. 1 CD #MOT-CD • \$99.00**

**Vol. 2 CD #MOT-CD2 • \$99.00**

**Vol. 3 CD #MOT-CD3 • \$99.00**

**Any 2 on CD #MOT-CD13 • \$149.00**

**All 3 on CD #MOT-CD12 • \$199.00**

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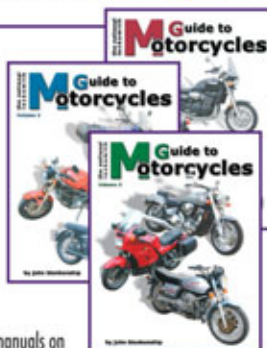
**Vol. 2 PRINT #MOT-2 • \$99.00**

**Vol. 3 PRINT #MOT-3 • \$99.00**

**Any 2 in PRINT #MOT-13 • \$149.00**

**All 3 in PRINT #MOT-12 • \$199.00**

For years locksmiths have begged for a comprehensive service manuals on motorcycles, and they are finally here! Covering a wide range of service procedures, you'll know everything a locksmith needs to know about each cycle. Plus, you'll get step by step photographs and instructions. Both volumes available in two formats, book or CD-ROM. Special pricing if you order both. If you have ever been frustrated by cycles made by the following manufacturers, you'll need these comprehensive books: • BMW • Buell • Harley-Davidson • Honda • Kawasaki • Neiman • Suzuki • Triumph • Yamaha • Zodi



## Locksmith Dispatcher 2004

**Item #DISP2004 • \$750.00**

Controlled Service dispatching software specifically for the locksmith. Features: • Easy service call entry. • 1 hour warning and late alerts. • Advertising tracking. • Employee callback tracking. • Customer callback tracking. • Plus many other money making features! • Available with or without complete Accounting module. (Accounting module includes POS, and everything else you need!)



## Cards & Keys

**Item #CK-1 • \$149.00**

Key blank cross reference & Code card production.

The first section of the program features a highly comprehensive database of key-blank reference numbers from 34 different manufacturers, 70,000 keys all cross indexed. This section of the program allows you to enter a key-blank reference number from a particular manufacturer and have this instantly converted to be the reference number of the brand of key-blank you use.

Print your own Code Cards with:

• Card Number • Space and Depth measurements in Metric or Imperial • Code series information (where applicable) • Cutter number • Key-blank number • Graphical representation of the key position in the jaw (allows easy positioning, and prevents mistakes) • Space & depth reference marks for needles.

The program comes pre-loaded with well over 700 cards, and also includes the ability to make your own cards should you require. Creates Punch Machine cards too!

Cards & Keys software includes BOTH card making ability and Key Companion software.

If you own InstaCode this module is already included.



## Key Companion

**Item #KC-1 • \$99.00**

"What is that key-blank?" How often have you wasted time trying to work out a comparison from an old or obsolete key-blank? With Key Companion, you can perform key comparisons in a snap! And also you can just identify a key if you are not sure, as a visual, then Key Companion will make the comparison for you against that selection.

This easy to use program has been designed for any key cutting operation, and allows you to compare key-blank reference numbers from 34 manufacturers in a matter of seconds, on 70,000 blanks.

Key Companion is economical, easy to install and works with all versions of Microsoft Windows. Best of all, the program includes not only 70,000 key-blank cross references, but a picture of the blank and profiles as well so you can make sure your search has produced the correct result!

If you own InstaCode this module is already included.



## AutoSmart Advisor

**Item #ASA-2002 • \$295.00**

New features: Now updated to include the new models. Parts Locator... do reverse searches. Enter a part number and a list of vehicles appears organized by make, model and year. Color photos of parts... the Parts Locator not only shows you all the data, but also a color photo of the part. Service Help... now on selected models full service article with color photos and step by step instructions walk you completely through every job you might do on the car. Additional updates will contain ever more service articles and models.

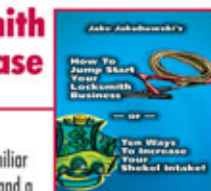
AutoSmart Advisor™ software tells you every scrap of information about the vehicle, all parts, costs, labor times, calculates your charges automatically, and shows you how to do the job!



## How To Jumpstart Your Locksmith Business or Ten Ways To Increase Your Shekel Intake

**Item #JUMPSTART • \$19.95**

Anyone who's ever read anything that Jake Jakubowski has written is familiar with his style... A little bit of humor, a little bit of "down home" wisdom and a whole lot of chutzpah. This book is just as witty, wry and pointed as everything else he had written. There's something in this book for the newbie, the seasoned 'smith and the person that's dreaming of the day when they can go out their own. "How To Jump Start Your Locksmith Business" is vintage Jake. His advice on money making, building your business and customer relations is timeless... At \$19.95, this CD version of Jake's newest book makes it one you can't afford to be without!



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# TECHNTIPS

## YEAR-END PRIZES



### **Grand Prize**

*Silca Bravo Duplicator*



### **1st Prize**

*HPC's 1200PCH  
Punch Machine*



### **2nd Prize**

*Kaba Mas  
PowerLever 2000*



### **3rd Prize**

*SDC Magnetic Lock,  
Keypad and Exit Switch*



### **4th Prize**

*Securitron 12-Volt Unlatch Plug in  
Trans & Touchpad Retail Value \$650*



### **5th Prize**

*LaGard "SmartGard"*



### **6th Prize**

*Detex Advantex*



### **7th Prize**

*Arrow 400 Series Alarmed  
Exit Device & S-75 Mounting  
Plate Kit for Narrow Stile  
Aluminum Doors*



### **8th Prize**

*\$500 in ASP Auto Locks*



### **9th Prize**

*\$500 in Strattec Auto Products*



### **10th Prize**

*Tech-Train "Jiffy Jack"*



### **11th Prize**

*Sargent & Greenleaf 6120  
Electronic Safe Lock*



## These Prizes Awarded Each Month!

• **Wedgeco™  
Broken Key  
Extractor Kit**

• **Keedex "SPIN  
OUT"  
Screwdriver**

• **Strattec  
Racing Jacket**

• **Tech Train  
Training Video**

• **HPC Air  
Wedge®**

• **Sieveking  
Products  
Gm E-Z Wheel  
Puller**

• **Sargent And  
Greenleaf  
4400 Series Safe  
Deposit Box  
Lock**

• **Major  
Manufacturing  
Products**

• **A-1 Security  
Products**

• **Jet Key Blanks  
(100 Blanks)**

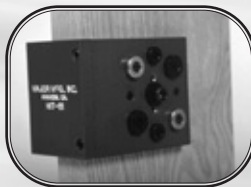
• **ILCO Key  
Blanks (100  
Blanks)**

• **High Tech  
Tools**

• **LG Combo**



**12th Prize**  
*High Tech Tools  
2004 Pro Set*



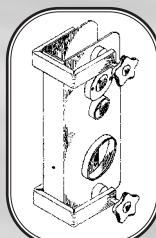
**13th Prize**  
*Major Manufacturing's  
HIT-111 Drill Guide*



**14th Prize**  
*Baxter #90 10-Cut  
GM Try Out Key Set*



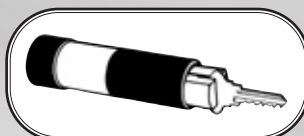
**15th Prize**  
*Sieveking Products  
Squeeze Play*



**16th Prize**  
*A-1 Security  
Manufacturing  
Installation Jig*



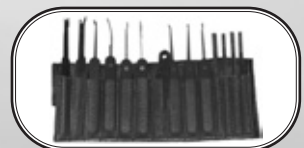
**17th Prize**  
*Keedex Sampler*



**18th Prize**  
*Framon  
Impressioning  
Handle*



**19th Prize**  
*Gator Tool Multi-Purpose  
Facecap Tool*



**20th Prize**  
*Peterson Picks,  
by Peterson Manufacturing*

### Send in your tips, and win!

#### How To Enter

Send a tip on how to do any aspect of locksmithing. Certainly, you have a favorite way of doing something that you would like to share with other locksmiths. Write your tip down and send it to:

*Jake Jakubowski, Technitips Editor,  
The National Locksmith  
1533 Burgundy Parkway  
Streamwood, IL 60107-1861*

*Or send your tips via  
E-mail to: Natlock@aol.com*

#### Rules & Regulations

Each tip submitted must include your full name, street address (no P.O. Box numbers), city, state, zip code, phone number, fax number and e-mail address. **When sending tips via e-mail make sure to include complete address and phone.**

#### Every Tip Published Wins

If your tip is published you will win one of the monthly prizes listed. At the end of the year, we choose winners from all the monthly tips published, that will be awarded one of the fabulous year end prizes. All you have to do to win is enter.

Prizes are arranged according to suggested retail price value.

**Tips Start  
on Next Page**







**JET KEY BLANKS  
WINNER:  
Brass Hammer Tip**

I am amazed what some tool stores charge for a small brass hammer. Consequently, I make my own and here's how I do it and you can do it too.

Go to a local machine shop and buy a 2" piece of brass bar stock in a 3/4" or 1" diameter. I get this stock for less than a dollar. Drill a hole

in the center of the bar stock (but not all the way through the stock) slightly smaller than the diameter of a useless, worn-out Phillips screwdriver shank. Cut off the tip of the screwdriver and drive it into the hole of the brass bar stock.

Your new brass locksmith hammer should have cost you less than \$2.00.

*Fred Gamble  
Texas*



**WEDGEKO KEY  
EXTRACTOR WINNER:  
Interchangeable Core  
Plug Repair**

Many times when I am working with small format I/C lock cores such as Best, Falcon, Arrow, and many others, I find that the working key will not come out of the cylinder smoothly. This is almost always on one of the locks that has the cylinder retainer plate riveted on.

What has happened is that with wear and pulling the key to open the door, the back of the cylinder housing, along with the retainer plate, has worn down or bent outward. This allows the lock plug to move outward so that the bottom pins are no longer in line with the top pins at the operating shear line. The key will not come out until the holes are in line as the plug is pushed inward at the same time the key is pulled out.

I have found that re-peening or re-swaging the rivets and the retainer plate will return the cylinder to smooth operation. You can spot this condition when you look at the face of the plug and the face of the core sticks out farther than the face of the plug. You must be careful not to crush or deform it as this may make the core unusable.

The lock plug must be supported on an anvil. To make the peening easier by holding the cylinder and anvil properly in place I made the following support: the I/C Anvil. Using an old I/C core of the same keyway, that had to be drilled out, I removed the lock plug. I then cut off the face and about 1/4" of the plug with a hacksaw. I used a belt sander to get this disk perfectly flat and smooth.

I inserted an old key that I shortened to about 5-pin lengths and soldered it in place.

To fix a worn cylinder as described above, simply place the I/C anvil in your vise, slip the worn cylinder onto the key and anvil, and carefully peen down the retainer. This idea can be used on I/C cores that are either empty or pinned. After realigning the plug with the rest of the core, lubricate and the cylinder will operate like new.

Make a different I/C anvil for each different keyway lock as needed.

*James Moorman  
Texas*



**STRATTEC WINNER:  
Great Organizers**

If you are like me and like a neat work van, I have found the best thing ever. I was at Lowe's hardware center recently and found a way to keep all of my tools neat, separated and ready to use. No more misplaced tools, no more fumbling, and no more frustration.

In the tool area at Lowe's, they had small aluminum brief cases that are padded inside (see illustration A). One was for my VATS equipment and keys that I labeled "VATS"



**Illustration A.**

## TNL Reader Survey Online

Take 3 minutes to complete the TNL Reader Survey which you can do online. If you choose to provide your name, you'll be entered in a drawing to win one of 30 cool locksmith prizes.

Please type in this link and take the survey to help us improve TNL!

<http://www.surveymonkey.com/s.asp?u=19976415107>

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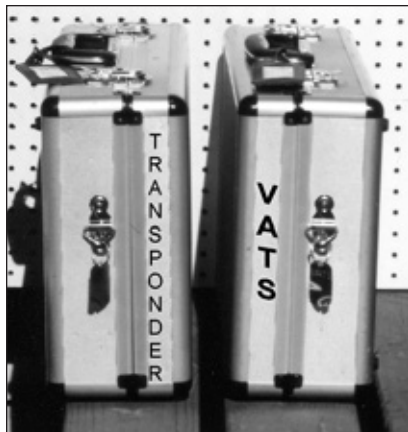


Illustration B.

and the other one which I used for my transponder equipment and labeled it "TRANSPONDER" (see illustration B).

These two cases worked so well for me that I bought 14 more and have all of my tools separated and readily available as I need them. I modified my workbench so

the cases fit neatly under it and are easy to access and use.

Luke McCrider  
South Carolina



**HPC WINNER:  
Quick Pick Tip for  
Threaded Locks**

I do lock work on a large number of campers and boats using the trailer hitch pin locks and trailer coupler locks such as Gorilla.

Most of these are the type that more or less unscrew with the key inserted, and pick a quarter of a turn at a time. Since you can only pick a quarter turn at a time, the job can become tedious and frustrating.

I've found what I think is a pretty quick way to open these locks without getting frustrated to the point that you want to reach for the drill and

drill the cylinder out. What I do is pick the lock and turn it one eighth of a turn and stop.

Then I get out my plug spinner, wind it tight, insert it into the keyway and flip the cylinder over. Often the cylinder will turn three, or four complete revolutions before it catches and locks again and I have to pick it again.

This way I only have to actually pick the lock two, or three times to open it, which saves me a lot of time. It really is a quick way to defeat this type of lock. I haven't tried it yet on locks like you find on gumball machines or the DETEX exit alarms, but I feel certain it would work just as well there as it does on the recreational locks.

Clarence "Sonny" White  
Illinois

Continued on page 100



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## Volume 1 covers...

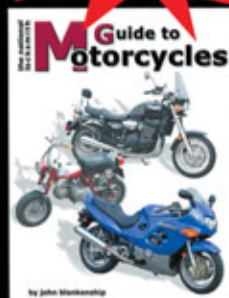
Key information • Progression Charts • **BMW** 1997 R1100R • **Harley-Davidson** 1938 Knucklehead, 1970 Sportster, 1980 Sportster, 1984 Wide Glide, 1994+ Tubular Ignition Lock • **Honda** 1968 Mini Trail 50, 1970 Trail 90, 1971 CB750, 1978 CB750, 1978 Hawk, 1981 CB900, 1982 Ascot, 1983 Shadow, 1984 Nighthawk, 1985 Rebel, 1990 Gold Wing, 1996 Nighthawk 750, 1996 VFR750 • **Kawasaki** 1980 LTD250, 1985 Ninja 600, 1993 KLX650 Ignition Lock, 1994 Ninja Gas Cap • **Neiman** Steering Lock • **Suzuki** 1986 Intruder, 1990 Katana 600, 1991 GSXR1100 Ignition Lock, 1998 Katana 600, 1999 TL1000R • **Triumph** 1995 Tiger, 1999 Legend • **Yamaha** 1980 650 Twin, 1987 FZR1000 Ignition Lock, 1987 Virago, 1992 Yamaha/Polaris 4-Wheeler Ignition Lock, 1998 V Star Classic, 1998 YZF600R

## Volume 2 covers...

Key information • Progression Charts • **BMW** 1976 R90/6, 1989 K100RS, 1995+ Ignition Lock, 1999 F650, Luggage using Y61 • **Buell** 2000 Blast • **Ducati** 1993 Monster • **Harley-Davidson** 1999 Road King Police, 1999 Sportster • **Honda** 1975 CB550 Ignition Lock, 1980 CB400 Ignition Lock, 1983 CB650 Ignition Lock, 1985 Aero Ignition Lock, 1995 Gold Wing Luggage, 1987 250X 4-Wheeler, 1990 NS50, 1992 Shadow, 1994 CB250, 1997 Shadow, 1998 CBR1100XX, 1999 CBR600F4, 1999 CBRX1100XX, 1999 Shadow, 2000 CBR600F4, LIPO 5-cut Ignition Lock, LIPO 8-cut Ignition Lock, • **Kawasaki** 7-cut Code Information, 1980 LTD250 Ignition Lock, 1983 GPZ Ignition Lock, 1986 ZX600R Gas Cap, 1986 ZX600R Ignition Lock, 1987 EX500 Ignition Lock, 1989 EX500, 1991 ZX-6, New Blank • **Suzuki** 1968 T500, 1981 GS550 Ignition Lock, 1986 GSXR750RG Gas Cap, SM-2 Ignition Lock, SM-4 Ignition Lock • **Triumph** 1970 Bonneville, 1973 Tiger, • **Yamaha** 1980 XS650, 1982 Seca 400, 1982 XV920 Ignition Lock, 1984 FJ600, 1986 FJ1200 Gas Cap, 1989 Riva Jog Ignition Lock, 1990 XT350, 1993 Seca II, 1996 Royal Star, Cruiser Ignition Lock • **Zadi** Q637 Ignition Lock, Q933 Ignition Lock

## Volume 3 covers...

Key information • Progression Charts • **BMW** 1999 R1100GS, Luggage using X59 • **Honda** 1975 CB500T Ignition Lock, 1980 CB750 Custom Ignition Lock, 1980 CM400T, 1983 CB450 Nighthawk Ignition Lock, 1985 Big Red, 1987 Elite 250, 1987 Elite 250, 1997 CBR600F3, 1999 Shadow ACE Deluxe, 2001 CBR1100XX, 2001 Gold Wing, 2001 XR100, 2002 VTX1800, Cruiser Ignition Lock • **Kawasaki** 1979+ Ignition Lock, 1982 KZ1000 Ignition Lock, 1986 ZL600 Ignition Lock, 1992 ZX6 Seat Lock, 1995 KLR250 Ignition Lock, 1998 ZX9R Ninja, 2000 Concours, 2001 250R Ninja, 2001 500R Ninja, 2001 KLR650, 2001 ZX12R Ninja, KM-5 Ignition Lock • **Moto Guzzi** 1979 V 50 II • **Suzuki** 1979 GS750 Ignition Lock, 1985 Ignition Lock, 1986 GSXR750, 1990 GSXR750, 1997 DR650, 1999 Savage, 2001 GSXR750, SM-5 Ignition Lock • **Yamaha** 1972 Enduro 100, 1977 Enduro 400, 1978 XS750 Triple, 1982 XZ550 Vision Ignition Lock, 1984 QT, 1989 V Max, 1992 TW200 Ignition Lock, 2002 BearTracker



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Continued from page 98



**SARGENT & GREENLEAF  
WINNER:  
Auto Center  
Punch**

I sometimes have trouble reassembling auto locks with the reusable face caps. I run out of hands and fingers trying to keep the pressure against the shutter assembly while trying to re-stake the cap with a punch and hammer.

Not long ago, while trying for the third time to accomplish this task, I remembered that I had an automatic center punch within reach. I held the lock together with one hand and used the auto center punch to re-swage the tabs and hold the cap in place.

It works great!

*Rick Clayton  
Texas*



**A-1 SECURITY  
PRODUCTS  
WINNER:  
Toyota Code Tip**

Recently, I had a 1992 Nissan NX for which I couldn't impression a key. Finally, in a frustrating attempt to generate a key, I pulled the passenger side door lock. Much to my surprise, there was a code stamped on the lock's tailpiece.

The code consists of five numbers—the last four are the code. Just place an "X" in front of the last four numbers and look the result up in your code book.

This one made me earn my money; and I thought I might share this with those that may not be aware that these vehicles have a code on the tailpiece.

*K.D. Harris  
Kansas*



**ILCO KEYBLANKS  
WINNER:  
Lock Coding Trick**

When I rekey a lever set on a door, I take the inside rose cover off and with a permanent pen, write the cuts of the key (coded of course) on the inside of the cover plate and put the rose and lever back on.

This trick has helped me several times to make keys to the lock when the keys are lost, or misplaced by a manager or tenant.

If the door is locked I use the KEEDEX lever opening tool to open the door, read my code, make a key, remove the lever and rekey it. It sure beats picking those pesky lever sets.

*Chris Shook  
Tennessee*



**KEEDEX WINNER:  
Everest Trick**

Some Everest blanks (non-Primus) have sort of an



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— Mike & Carol Oar  
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# 750

undercut milling on one side. The problem is that the keyway has a corresponding broaching that can easily be distorted or damaged by trying to insert the key into the keyway either too high or low.

If you get a call concerning an Everest key that suddenly will not enter the keyway, simply take the appropriate blank and hold it in the proper position to insert it in the cylinder. Strike it sharply with a lightweight plastic mallet or wooden hammer handle.

The blank will reform the keyway with no damage. A pick can be used to make sure that no debris remains in the keyway.

*Leo Meres  
Florida*



**TECH TRAIN  
TRAINING VIDEO  
WINNER:  
Shim Tip**

If you are out on a job and need a piece of shim stock real bad, here's a way to bail yourself out.

Check around and see if there is something that you have recently purchased that has one of those little plastic anti-theft stickers on it. If so, carefully remove the sticker from the item that you bought and open the inner plastic cover. Inside you will find two perfect pieces of shim stock that are just the right size and thickness.

*Glenn Kirkpatrick  
Montana*

Editor's Note: Glenn, I never thought about opening one of those devices. Thanks for the tip. Over the years I've had locksmiths suggest cut up soda cans, tin-foil and even a feeler gauge (you know the ones for checking the clearance on a sparkplug) and pieces of stiff plastic from "clamshell" packaging. Like everything else in this profession

of ours, we have to do whatever we have to do to make something work right now!



**SIEVEKING  
PRODUCTS GM E-Z  
WHEEL PULLER  
WINNER:  
Pipe Cleaner Trick**

We all have gone out to do a key origination, and the plan was to impression the key. How many times has the plan been foiled by a dirty lock?

I've known some locksmiths who will flush the lock out, and comeback the next day only to find the residue still in the lock. That residue will prevent you from seeing the marks as clearly as you should when impressioning. My solution to the problem is to use pipe cleaners.

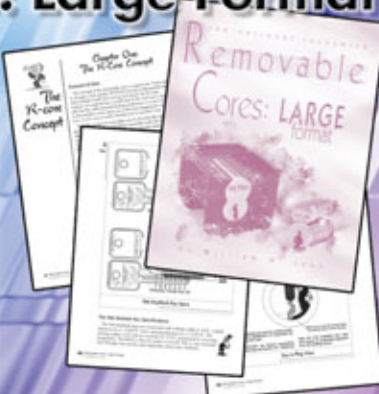

They're perfect for cleaning the cuts and allow you to clearly see the marks. The

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pipe cleaners really wipe the cuts crystal clear; leaving no residue behind. Pipe cleaners, are relatively cheap, you can get a bag for under a dollar. There are other remedies for a dirty lock, but this works very well for me, and will work for you, too.

Jonathan Muhammad  
Georgia

**Major** MANUFACTURING, INC. MAJOR MANUFACTURING PRODUCTS WINNER:

#### Key Storage/Shipping Trick

If you are shipping or storing key blanks or other items—whether a few or many—this trick eliminates the keys piercing, and then falling out of the envelope or packaging.

Use a machine like a “SEAL-A-MEAL” and simply cut a piece from the roll of bags, insert your keys, or other items (lock cylinders,



**Illustration C.**

plugs, wafers, pins, etc.) apply the vacuum and then seal it (see illustration C).

I find this idea just great for shipping or storing items like loose key blanks or other small items that would shift and puncture an envelope or the shipping packaging used.

This process is also great for short, or long term storage. The bags are strong and can take abuse. Key blanks will not tarnish in this

sealed environment. Items that might have a sharp edge, can be wrapped with paper to prevent premature puncture.

William J. Bernardini, Sr  
South Carolina



#### LAGARD WINNER: Weiser Lockout Tip

How many times has a customer called you and said, “I’m locked out! I have my keys they just won’t open the door”? When you get there, sure enough, you find that the lock is a Weiser. No matter how much the key turns, that knob or button just won’t pop.

Here’s what I do.

First, I pull the cylinder out using a Weiser shim and look at the back of the cylinder. Sometimes the square spindle seat is reamed out. If so, simply use a pair of needle-nose pliers and turn the small square spindle manually. Most times, however, I find that the inside knob spindle is rounded out, and no amount of turning and twisting with pliers will unlock it.

When that occurs, I pull out the small spindle, take off the washer and spring, turn the spindle end-for-end so that the crimped wings that the washer seats against go into the larger square shaft first. I then push the small square spindle down the shaft until I meet resistance. Tap gently to get some grip, and use the small spindle to gently pull the larger square shaft out just enough to disengage it from the inside locked knob.

Then all you have to do is turn the outside knob and you’re in. Once in the house, you can service the old lock, or replace it as necessary.

Darin M. McFarland  
Wyoming

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# BUSINESS BRIEFS

## **John Chaco Joins Lockmasters**

Lockmasters, Inc. is pleased to announce the addition of John Chaco as US West Coast Representative. John was most recently a shop manager of Grah Safe & Lock of San Diego and is also a certified instructor for the Kaba-Mas line. John will be responsible for growing the west coast sales territory.

## **Mayflower "Power of M" Promotion**

Exemplifying the new direction that Mayflower Sales has embarked upon is a unique concept called "Power of M." The words reflect the company's preparation for the future including their vast expansion of inventories, careful evaluation of new products, immediate shipment of orders, new state of the art computer technology, and the employment of highly trained product application specialists.

"Mayflower" states CEO Paul Swetow, "is making this major commitment because we believe that for our customers and ourselves to grow and expand in a dynamic, changing business environment, we must provide exactly what is required—correctly, efficiently and instantaneously."

*For more information call: 800-221-2052; E-mail: pilgrim@mfsales.com.*

## **Lee Garver, 31 Years of Contributions Recognized**

Lee Garver, Product Manager, Keys and Cylinders, for YSG Door Security Consultants, was presented the Distinguished Architectural Hardware Consultant Award (DAHC) by William H. Elliott Jr., AHC, president of the Door and Hardware Institute, at its recent convention conducted in Tampa,



Florida. The Distinguished Consultant Award is the Institute's second highest award, based on technical expertise. It is conferred on a DHI consultant member "for significant contributions to the improvement and promotion of the body of knowledge on which the door and hardware industry is built." Only two award winners were selected this year.

## **Schlage Computer-Managed (CM) Locks on San Francisco General Hospital**

The San Francisco General Hospital is using approximately 150 Schlage "Locknetics on Board" Computer-Managed (CM) locking systems to control

access to medicine storage rooms, pharmacies, sleeping rooms and other high-security areas. The CM locksets can read both proximity card and iButton credentials for authorized access. They are used any place the hospital needs to keep track of who accessed an area and when. The standalone CM locking systems provide features similar to online, networked systems at a fraction of the installed cost.

## **Lockmasters PUREAuto Talladega Weekend**

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- Catered hospitality at Talladega Super Speedway Sunday, October 3rd.
- Catered meal and beverages in Hospitality tent in the Corporate Hospitality pavilion.
- Hospitality will be available prior to the Nextel Cup race: Between the time of arrival and approximately Noon (the start of the race).
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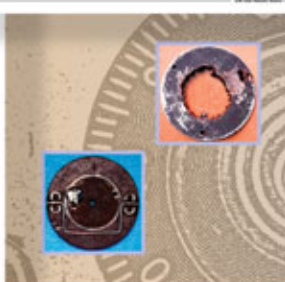
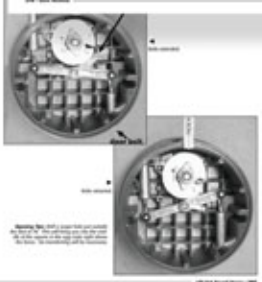




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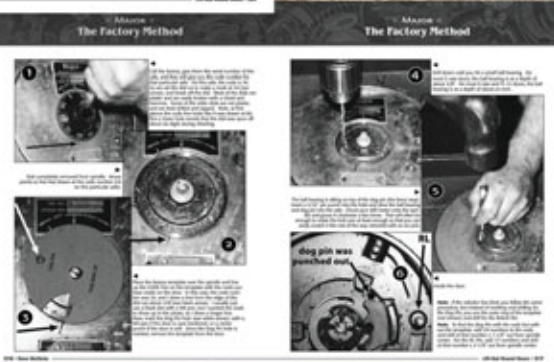
**NEW!**



## Dave McOmie on Lift-Out Round Doors



At long last, we are pleased to announce **Dave McOmie on Lift-Out Round Doors**! This newly published book contains 317 pages (not counting the lengthy introduction), 664 photographs, and more than 40,000 words of text. It covers just about every lift-out round door you will ever see, and a whole lot more (54 different manufacturers, to be precise). Included in the text are drill points, relocker drill points, depth to door bolts, door thickness, door diameter, and many, many tips and tricks.



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OID 04/04





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by John Blankenship



**1** The new 2003 Suzuki Burgman scooters come in two sizes. They feature a new and effective vandal and theft deterrent.



**2** This is the Burgman 650 that is powered by a 650cc 2-cylinder engine.



**3** This view from the drivers' seat shows two of the three locks on this scooter. The ignition/steering/seat lock is in the center behind the handlebars and the glove box lock is below the ignition lock.



**4** The ignition lock is protected by a hardened plate that covers the keyway. This effectively prevents vandals or thieves from using a screwdriver or puller in the ignition lock. The multi-purpose ignition lock turns the ignition on, locks the steering, turns on the parking lights and opens the seat.

Continued on page 110



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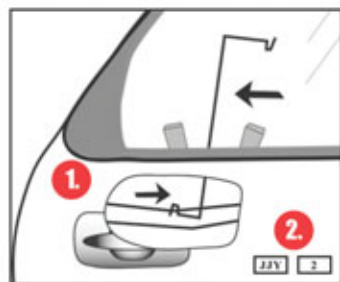
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5. Detailed instructions on how to do the vehicle opening.



VEHICLE: SAAB 9-2X  
WEDGES: YES  
LIGHT: YES  
TOOL: TT-1008  
DIRECTION OF TURN: CLOCKWISE

This vehicle can be unlocked by attacking the inside lock control linkage on the REAR DOOR. Begin by wedging open the REAR DOOR as far to the rear as possible. Insert an inspection light into the door, and visually locate the two horizontal linkage rods inside the door. The upper linkage rod is the inside lock control linkage. This linkage rod is also slightly closer to the outside side of the door. Insert the short end of the TT-1008 tool into the door, and lower it until the tool can be hooked over the upper linkage rod. Twist the tool in order to bend the linkage, then lever the linkage rod forward to unlock the door.

**NOTE:** This procedure can be done by feel with practice. When working without an inspection light, watch the inside lock control rocker for movement as you probe for the linkage rod.

**NOTE:** The inside lock control rockers move forward to unlock, which is the opposite of most vehicles. When using the Jiffy-Jak Vehicle Entry System, you must move the inside lock control rocker forward in order to unlock the door.

Page: EURO 116

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**5** This is the original key. It is a standard Suzuki 7-cut key except for the magnetic key on the bow that is used to open and close the protective plate.



**6** The magnetic key is the same shape as the shallow keyway it enters. There are magnets located inside the plastic.




**7** Using the magnetic key to turn it to the OPEN position moves the protective plate out of the way so the mechanical key can enter the ignition lock.



**8** The mechanical key code is on a plastic tag that is on the ring with the new keys. The code for this scooter is A6536, with cuts of 1323411 on an X241 blank.

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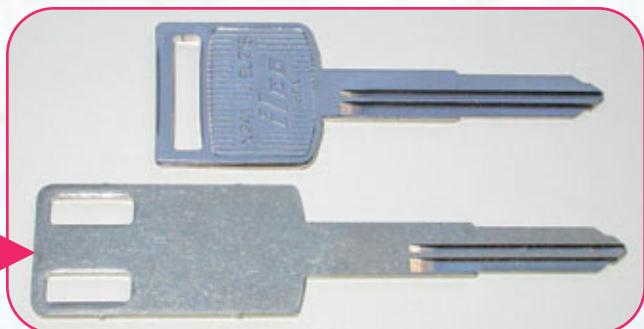
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OID-4/02



**9** An X241 blank is on top and the original blank is on the bottom. It is Suzuki part number 37146-10G00 and the price was \$22.99. The only way I know to get a magnetic key is to buy a new lockset. The Suzuki part number is 37000-10851 and the price was \$244.99.



**10** The glove box lock most likely contains 5 tumblers in spaces 3-7, but I was not able to confirm this as I was only allowed to take photos. After obtaining the cuts from this lock you can use software or a progression method to obtain the remaining cuts in the ignition lock if the protective plate is open.



**11** It appears that you can remove two Phillips screws from the back of the glove box latch/lock and remove it from the front.

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**12** The gas cap is on the left side. You should be able to pick and disassemble it to obtain the cuts for spaces 3-7, most likely.



**14** This view from the drivers' seat shows the ignition/steering/seat lock, glove box lock, and the cover for the gas cap. The ignition lock with protective plate and the glove box lock are the same as on the 650 model. The 650 magnetic key would not open the protective plate on the 400.



**13** This is the Burgman 400 that is powered by a 400cc single-cylinder engine.

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**15** The gas cap is different than on the 650, but chances are it can be picked and disassembled to obtain the cuts for spaces 3-7.

**Codes:** A6001-A7000

**Blank:** Ilco X241 (SUZ18), Curtis SU18, Silca SZ14RAP

**Spacing:** 1=.157, 2=.256, 3=.354, 4=.453, 5=.551, 6=.650, 7=.748

**Depths:** 1=.295, 2=.276, 3=.256, 4=.236

**Card Number:** CMC71

**DSD Number:** 441

**ITL Number:** 523

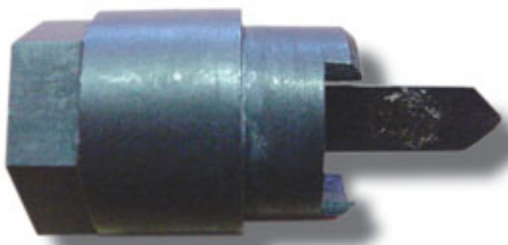
**Curtis:** MZ-3 cam & SU-2A carriage

**TNL**

Taking Industry Products for a...

# TEST DRIVE

## Ford Quick On by AABLE Locksmiths



### THE NEED:

Have you ever come up against a Ford 10-wafer ignition lock that just would not cooperate? Maybe you even had the working key, but the lock would not turn. What do you do?

Well, let me suggest the Ford "Quick-On" by AABLE Locksmiths.

### THE TOOL:

Frank Markisello, R.L., owner of AABLE Locksmiths and inventor of numerous tools for locksmiths, has come up with a tool to facilitate the quick removal of the Ford 10-wafer ignition lock. With this tool you can rotate the plug to the "On" position for easy removal. It works on the old and new style wings, and button style ignitions.

No drilling is required to use the tool and it works quickly—usually within 60-seconds—and no damage will result to the column or housing if used as directed. The tool is made from the finest hardened tool steel and has a replaceable steel alignment key.

The tool body has two cutting tabs and special ridges for a dependable, high torque engagement of the ignition

cylinder. It also comes with a complete photo instruction sheet for easy use.

### USING THE TOOL:

Begin by removing the wing nut and pulling the buzzer activator tab away from the cylinder, to make a clear path for the tool to the face of the lock.

Insert the tool into the keyway, making sure the two cutting tabs are in contact with the face of the cylinder. Being sure to hold the tool straight and level against the cylinder, strike the rear of the tool until the tabs cut into the face of the cylinder. Frank recommends using at least a two-pound hammer. The tool will go flush and snug with the face of the cylinder when it is correctly installed.

Now you can use a crescent wrench or 7/8" socket to turn the cylinder to the "On" position. Be sure to keep pressure against the rear of the tool and do not tilt the tool or wrench while turning the ignition. Do not turn the ignition past the "On" position. You need only turn it to the "On" position to get the lock out of the column.

The next step is to insert a tool into the poke hole and then pull

### IN SUMMARY:

**DESCRIPTION:** A quality tool used to force the ignition of a 10-wafer Ford to the on position for easy removal.

**PRICE:** \$65.00 plus shipping and handling from New York.

**COMMENTS:** A good alternative for making a key if other methods fail. It is a good tool to have in your toolbox should trouble arise with a 10-wafer Ford ignition.

**TEST DRIVE RESULTS:** A very fast (but destructive) method for turning Ford 10-cut ignitions.

the lock out of the column. If the customer wants the new lock to fit the existing door key, rekey a new lock and replace it in the column. Collect your money and you are on your way. It's quick and no cleanup is needed since you did not have to drill anything.

### TEST DRIVE RESULTS:

I found this tool to be easy to use and very fast. It does what it is advertised to do. Caution must be used, so as not to tip the wrench while turning it. Once you get the hang of doing it correctly, it is a piece of cake.

The user must be aware that this method will destroy the old lock and a new replacement will be needed. Make sure you have a replacement for the customer before using this tool.

Frank has a variety of unique tools and when you call him he will send you a catalog detailing what else is available.

*For more information contact:*

**AABLE Locksmiths**

86-19 97th Ave

Ozone Park, NY 11416

Phone: 718-848-8000

Fax: 718-835-5117 **TNL**



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By ANDREW KELLEY  
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